ORDER NO. VRD9608M120

# Service Manual

***General Description***
***Adjustment Procedures***
***Block / Schematic Diagrams***
***Exploded Views / Parts List***

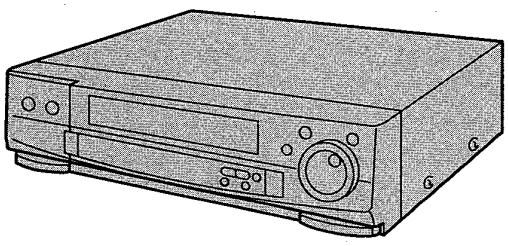
Video Cassette Recorder

**Panasonic** VHS PAL

Hi-Fi HQ

## NV-HD660 EG/EGH B/EC

**K-MECHANISM**



### SPECIFICATIONS

| ITEM | SPECIFICATION | | ITEM | SPECIFICATION |
|---|---|---|---|---|
| POWER | SOURCE: 220—240 V AC 50/60 Hz | | AUDIO | HEAD: 1 Stationary head (Normal-mono only)<br>2 channels (Hi-Fi Sound-Stereo) |
| | CONSUMPTION: 23 watts (NV-HD660EG/EGH)<br>25 watts (NV-HD660B/EC) | | | INPUT: EURO AV (AV1, AV2) Connector (21 pin×2)<br>−6 dBV (500 mV), more than 10 kΩ<br>AUDIO IN (AV3) Connector (Phono type)<br>−10 dBV (316 mV), more than 47 kΩ<br>MICROPHONE JACK −70 dBV |
| RECORDING SYSTEM | 2 rotary heads, helical scanning system | | | OUTPUT: AUDIO OUT Connector (Phono type)<br>−6 dBV (500 mV), Less than 1 kΩ<br>EURO AV (AV1, AV2) Connector (21 pin×2)<br>−6 dBV (500 mV), Less than 1 kΩ |
| | PAL | | TAPE SPEED | SP: 23.39 mm/s<br>LP: 11.695 mm/s<br>Record/Playback Time:<br>SP: 4 hours with 240 min. type tape<br>LP: 8 hours with 240 min. type tape<br>FF/REW Time:<br>2.5 min. with 180 min. type tape |
| TV TUNER SYSTEM | NV-HD660 EG/EGH | VHF I: CHN1—CHS10<br>VHF III: CHE5—CHS41<br>(PAL/SECAM B)<br>UHF: CH21—CH69<br>(PAL/SECAM G)<br>75Ω terminated | OPERATING TEMPERATURE | 5°C—40°C |
| | NV-HD660B | UHF: CH21—CH69 (PAL I)<br>75Ω terminated | OPERATING HUMIDITY | 35%—80% |
| | NV-HD660EC | VHF I: CHE2—CHS3<br>VHF II: CHM1—CHM9<br>VHF III: CHM10—CHU2<br>VHF H: CHU3—CHS41<br>(PAL/SECAM B)<br>UHF: CH21—CH69<br>(PAL/SECAM G)<br>75Ω terminated | DIMENSIONS | 430 (W)×99.9 (H)×321.5 (D) mm |
| RF OUT SYSTEM | NV-HD660 EG/EGH/EC | UHF: CH36±6CH (PAL G)<br>70 $^{+2}_{-3}$dBμ, 75Ω terminated | WEIGHT | 4.3 kg |
| | NV-HD660B | UHF: CH36±6CH (PAL I)<br>73±3 dBμ, 75Ω terminated | STANDARD ACCESSORIES | 1 pc. DIN-RF Cable<br>1 pc. AC Mains Lead<br>1 pc. Infra-res Remote Controller<br>1 pc. Audio Cable |
| VIDEO | HEADS: 4 rotary heads<br>1 pair for recording and playback<br>(L-R heads)<br>1 pair for trick play (L'-R' heads) | | | |
| | INPUT: EURO AV (AV1, AV2) Connector (21 pin×2)<br>1.0 Vp-p, 75Ω unbalanced<br>VIDEO IN (AV3) Connector (Phono type)<br>1.0 Vp-p, 75Ω unbalanced | | | |
| | OUTPUT: EURO AV (AV1, AV2) Connector (21 pin×2)<br>1.0 Vp-p, 75Ω unbalanced | | | |

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

**Panasonic**

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**⚠ WARNING**

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

# INTRODUCTION

*This service manual contains technical information which will allow service personnels to understand and service this model.*

*Section 1 presents you with technical know how for actual servicing and general information of features and controls, enabling you to become familiar with each function.*

*Section 2 presents to your mechanical and electrical adjustment information as well disassembly and replacement procedures.*

*In the case of very common information relating to other models like mechanical adjustments, please refer to the appropriate service manual.*

*Section 3 contains block diagrams which provides you with information for checking and understanding each circuit. Schematic diagrams which give you detailed information such as waveforms, voltage data, function e.t.c. ...*

*Section 4 contains exploded views and parts list.*

*Please place orders using the parts list and not the drawing reference numbers.*

*If the circuit is changed or modified, this information will be followed by supplementary service manual to be filed with original service manual.*

Note 1: Adjustment procedures, Disassembly Procedures and Assembly Procedures for Mechanism Chassis are separate volume from this service manual.
Please refer to the service manual for K-Mechanism Chassis. (Order No. VRD9307M131)

Note 2: The Model No. is indicated on the Schematic Diagram and Circuit Board Diagrams as follows.

| Model No. | NV-HD660EG | NV-HD660EGH | NV-HD660B | NV-HD660EC |
|---|---|---|---|---|
| Indication Mark | (A) | (B) | (C) | (D) |

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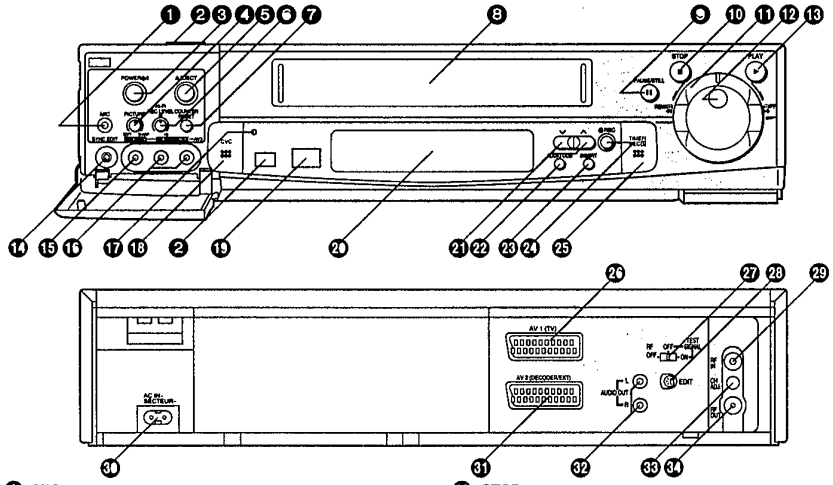
# Controls and Connection Sockets

This gives a detailed explanation of the function of each button, switch and connection socket.



**❶ MIC**
To connect a microphone for recording. Once connected, this socket has priority.

**❷ Infra-red Signal Transmitter**
Signals are sent from here to the receiver when using this unit to control one of the satellite receivers found on the attached list of compatible satellite receivers. For assured satellite receiver control, **Satellite Settings** must be performed at the installation stage.

**❸ POWER ⏻/I**
Press to switch the VCR from on to standby mode or vice versa. In standby mode, the VCR is still connected to the mains.

**❹ PICTURE**
To make picture sharper (SHARP) or softer (SOFT). This functions only when the CVC function is off.

**❺ EJECT**
To eject a video cassette.

**❻ HI-FI REC LEVEL**
To adjust the recording level to peak at +4 dB on the recording level indicator.

**❼ COUNTER RESET**
To reset the tape counter (elapsed time) to "0:00.00".
- The tape counter is automatically reset to "0:00.00" when a video cassette is inserted.

**❽ Cassette Compartment**
Insert a video cassette here.

**❾ PAUSE/STILL**
In the stop mode: Still picture (Jog/Shuttle mode).
During playback: Still picture (Jog/Shuttle mode).
During recording: To interrupt recording.

**❿ STOP**
To stop any playback or recording.

**⓫ Shuttle Ring**
In the stop mode: To rewind or fast forward the tape.
In the playback mode:
To search picture backward or forward.
In the still playback mode:
To adjust playback speed backward or forward.
In the rewind or fast forward mode:
To obtain high speed picture.

**⓬ Jog Dial**
To locate any desired frame with utmost precision.

**⓭ PLAY**
To start playback. "▷" is lit.
For the repeat playback function.

**⓮ SYNC. EDIT**
To connect the synchro connection cord (VW-K10E/VW-K1E) to a movie camera or another VCR equipped with synchronized editing capability.
To connect a movie camera or another VCR equipped with LANC socket for One-Touch-Editing.

**⓯ VIDEO IN (AV3)**
To connect the video cable to a movie camera or to another VCR.

**⓰ AUDIO IN (AV3)**
To connect the audio cable to a movie camera or to another VCR.

**⓱ Standby Indicator**
This indicator is lit when the VCR is turned off or the VCR is timer recording standby mode.

**⓲ CVC (Crystal View Control)**
ON: Using the CVC function, playback and recording are performed in the state which achieves optimum picture quality in light of characteristics of a tape.
- The CVC indicator is lit on the VCR display.
- This control should normally be left in the ON position.

OFF: Turn off the CVC function.
- The CVC indicator is not lit.

**⓳ Infra-red Remote Control Receiver Window**

**⓴ Display**

**㉑ ∨ ∧**
To select the required programme position (TV station).

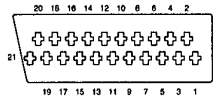
**㉒ AUDIO DUB**
To set up the VCR for audio dubbing.
ADUB is appeared on screen display.

**㉓ INSERT**
To set up the VCR for insert editing.
INSERT is appeared on screen display.

**㉔ REC**
To start a recording.

**㉕ TIMER REC**
To turn the timer recording function on and off.
◳ is lit or not lit.
Once operating timer recording function, the normal VCR operation is not possible unless this button is set to off.

**㉖ AV1 (TV)**
This 21-pin scart terminal carries input and output signals for both picture and sound. TV sets equipped with a similar socket can be connected here.
This is also called Scart
Peritel
Euro Connector
Euro AV




| | | | |
|---|---|---|---|
| 1 | AUDIO OUTPUT CH2 (R) | 13 | RED GROUND |
| 2 | AUDIO INPUT CH2 (R) | 14 | BLANKING GROUND |
| 3 | AUDIO OUTPUT CH1 (L) | | |
| 4 | AUDIO GROUND | 15 | RED |
| 5 | BLUE GROUND | 16 | BLANKING |
| 6 | AUDIO INPUT CH1 (L) | 17 | VIDEO OUTPUT GROUND |
| 7 | BLUE | | |
| 8 | SWITCHING VOLTAGE | 18 | VIDEO INPUT GROUND |
| 9 | GREEN GROUND | | |
| 10 | No connection | 19 | VIDEO OUTPUT |
| 11 | GREEN | 20 | VIDEO INPUT |
| 12 | No connection | 21 | GROUND |

Caution: RGB reservation for only E/E operation when connecting the Pay TV decoder

**㉗ RF OFF/TEST SIGNAL**
RF OFF: Set to this position when the VCR is connected to the TV via the 21-pin scart cable.
TEST SIGNAL OFF:
Set to this position when the VCR is connected to the TV via the RF coaxial cable only.
TEST SIGNAL ON:
Set to this position when tuning the TV into the VCR.
The test signal is transmitted on channel 36 initially.

**㉘ EDIT**
By connecting the optional Editing Controller (VW-EC310E/VW-EC300E) to this socket, such editing functions as Assemble Editing, Insert Editing and Audio Dubbing can be performed more quickly and efficiently between two VCRs or between a VCR and a movie camera.

To connect the Edit cable (VW-K5E) to a movie camera or to another VCR for One-Touch-Editing.

**㉙ RF IN**
To connect to the external aerial.

**㉚ AC IN~**
To connect to the main power supply.

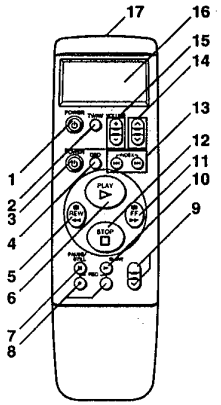
**㉛ AV2 (DECODER/EXT)**
To connect to a decoder, another VCR or a satellite receiver.

**㉜ AUDIO OUT**
To connect the audio cable to a stereo audio system.

**㉝ CH ADJ.**
To adjust the RF transmitting channel 30–42.

**㉞ RF OUT**
To connect to the aerial terminal on a TV set.

# Infra-red Remote Controller




**1 POWER (TV)**
To switch the TV from on to standby mode or vice versa. In standby mode, the TV is still connected to the mains.
- With some TV models, it may only be possible to switch the TV to standby mode using this button. In this case, use **TV/AV** or ∨ ∧ **(TV)** to switch the TV on.

**2 TV/AV**
To select the TV input.

**3 POWER**
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still connected to the mains.

**4 OSD**
For the On Screen Display Function.

**5 REW (REWIND)**
In the stop mode: To rewind the tape.
In the playback mode: To search backward.
In the rewind mode: To obtain high speed picture.
"◁◁" is lit.

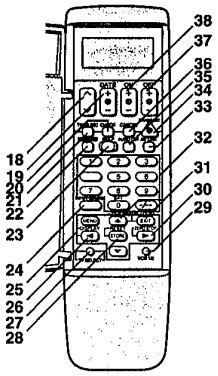
**6 PLAY**
To start playback. "▷" is lit.
For the repeat playback function.

**7 PAUSE/STILL**
During playback: Still picture.
During recording: To interrupt recording.

**8 REC**
To start a recording.
- Press both buttons simultaneously.

**9 ∨ ∧ (VCR)**
To select the required programme position (TV station).

**10 SLOW**
For the slow motion playback function. "▯▷" is lit.




**11 FF (FAST FORWARD)**
In the stop mode: To fast forward the tape.
In the playback mode: To search forward.
In the fast forward mode: To obtain high speed picture.
"▷▷" is lit.

**12 STOP**
To stop any playback or recording.

**13 INDEX**
For the index search function.

**14 ∨ ∧ (TV)**
To select the required programme position (TV station) of the TV.

**15 VOLUME**
To adjust the volume of the TV.

**16 Display**

**17 Infra-red Transmitter**
The programming data are transmitted from here to the VCR.

**18 ∨ ∧**
To programme a timer recording.

**19 DATE**
To programme a timer recording.

**20 CHECK**
To check timer programmes.

**21 TIMER REC**
To turn the timer recording function on and off.
⏲ is lit or not lit.
Once operating timer recording function, the normal VCR operation is not possible unless this button is set to off.

**22 SHOWVIEW**
For the ShowView programming.

**23 SP/LP**
To select the tape speed desired for recording.
SP gives the best picture quality.
LP gives the longest recording time.

**24 INPUT SELECT**
To select the A1, A2 or A3 external recording source.

**25 OSD Operation Buttons**
**MENU:** To make On Screen Display **Main Menu** appear on the TV screen.
**▲ ▼ ◀ ▶:**
To make selections from On Screen Display.
**STORE:** To confirm the selection, or to store.
**EXIT:** To exit the menu.

**26 DISPLAY**
To change the indication on the VCR Display or On Screen Display.

→Clock→Counter→ Remaining Tape Time→

**27 TV SELECT**
To set the remote controller for operation of the TV.

**28 RESET**
To reset the tape counter (elapsed time) to "0:00.00".
- The tape counter is automatically reset to "0:00.00" when a video cassette is inserted.

**29 VCR 1/2**
To select the remote control mode. The selected mode appears on the remote controller display.
VCR1: Set to this position on both the VCR and remote controller for normal use with one VCR.
VCR2: Set to this position when using two Panasonic VCRs.

**30 ZERO STOP**
For the zero stop function.

**31 TRACKING/V-LOCK**
For manual tracking adjustment
The + and – buttons are used to adjust the tracking when, for example, noise bars on the picture are better removed manually than by the automatic digital tracking control. After making a manual adjustment, press both buttons together to return to automatic digital tracking control.

For slow tracking adjustment
When noise bars appear during Still or Slow playback, switch over to slow playback and adjust with the + or – Button to reduce the noise bars.

For vertical locking adjustment
Use the + and – buttons minimize any vertical jitter during still-picture playback.

**32 Number Buttons**
- To select the programme positions (1–99).

9: (9)
19: (-/--) → (1) → (9)

- To select the satellite programme positions (SAT1–SAT99)

SAT 9: (SAT 0) → (SAT 0) → (9)
SAT 19: (SAT 0) → (1) → (9)

- To programme a ShowView number.

**33 AV LINK**
To select the VCR mode or TV mode for AV LINK.

**34 TRANSMIT**
To transmit the data that has been set on the remote controller to the VCR.

**35 AUDIO OUT**
To select the desired sound mode.
At the every push of this button, the audio output mode changes as follows.

→Stereo→Left→Right→Normal audio track

The Left (L) and Right (R) Indicators shown which sound mode is selected in the following way.
Stereo: Both the L and R Indicators appear.
Left: The L Indicator appears.
Right: The R Indicator appears.
Normal: Both the L and R Indicators don't appear.

**36 CANCEL**
To cancel the settings made for a timer recording.

**37 OFF**
To programme a timer recording.

**38 ON**
To programme a timer recording.

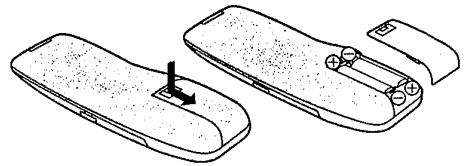
## Power Source for the Remote Controller

The remote controller is powered by 2 "AA", "UM3" or "R6" size batteries. The life of the batteries is about one year, although this depends on the frequency of use.

## Precautions for Battery Replacement

- Load the new batteries with their polarity (⊕ and ⊖) aligned correctly.
- Do not apply heat to the batteries, or an internal short-circuit may occur.
- If you do not intend to use the remote controller for a long period of time, remove the batteries and store them in a cool and dry place.
- Remove spent batteries immediately and dispose of them.
- Do not use an old and a new battery together, and never use an alkaline battery with a manganese battery.

## Installing the Batteries

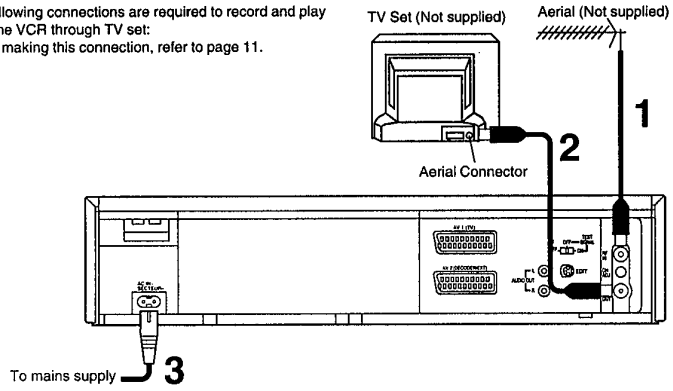


# Connections

This tells you how to connect with an aerial, TV, etc.

## Basic Connections

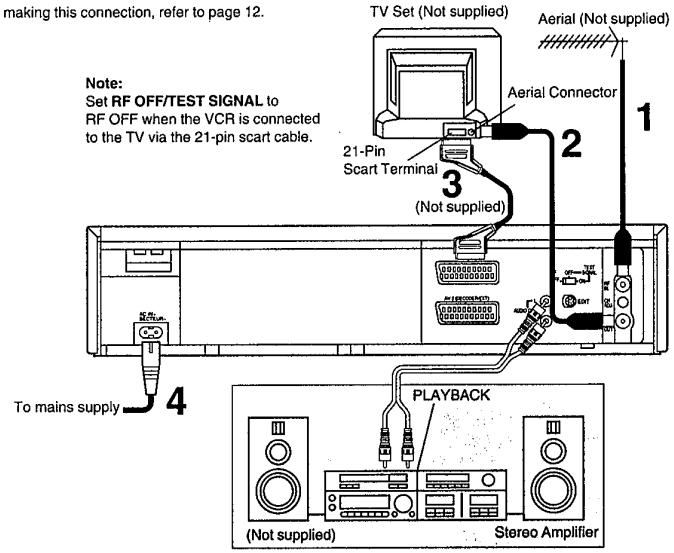
The following connections are required to record and play back the VCR through TV set:
- After making this connection, refer to page 11.




## Connection to a TV Set with 21-Pin Scart Terminal

- After making this connection, refer to page 12.

**Note:**
Set **RF OFF/TEST SIGNAL** to RF OFF when the VCR is connected to the TV via the 21-pin scart cable.

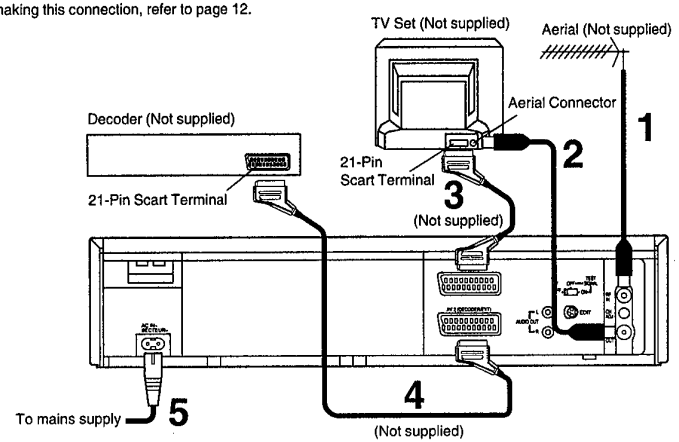



**●Connection to a Stereo Amplifier**



## Connection to a Decoder

- After making this connection, refer to page 12.




**Notes:**
- If the TV set is provided with an RGB-compatible connector, connect the 21-pin AV cable from the VCR to this connector. Use full-pin 21-pin AV cables for connecting the TV set and VCR and for connecting the VCR and decoder.
- Set **RF OFF/TEST SIGNAL** to RF OFF when the VCR is connected to the TV via the 21-pin scart cable.
- When the decoder is connected to the AV2 socket, **AV2 Connection** must first be set to **DECODER**. (See page 39.)

### AV LINK

With this button the connected colour TV set can be switched from TV mode to VCR mode (vice versa) when it is connected by means of 21-pin scart cable.

This makes a variety of functions possible such as simultaneous recording and viewing when a Pay TV decoder or a satellite receiver has been connected.

**VCR mode (VCR indicator lights):**
To enjoy sound and pictures from the VCR.
- When **MENU** is pressed and the OSD (On Screen Display) screen is displayed, the unit also automatically switches to VCR mode.
  However, if the unit is originally in TV mode, the VCR indicator is not displayed.
- The unit also automatically switched to VCR mode when playback is started. However, the unit cannot be returned to TV mode during playback.

**TV mode (VCR indicator goes off):**
To watch another programme on the TV while recording on the VCR.
- Select the programme to be watched using the TV set's tuner.
- The sound and pictures of a different channel are received by the VCR.

| VCR | | TV set |
|---|---|---|
| Power On | VCR mode | AV input selected |
| | TV mode | Input from TV set's tuner* |
| Power Off | — | Input from TV set's tuner |

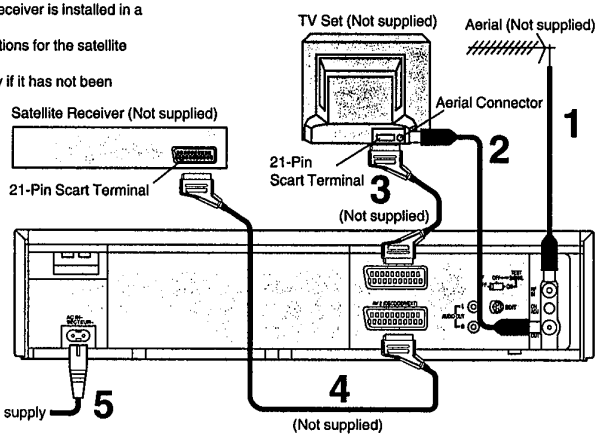
*When the VCR is set to the TV mode and the Pay TV channel is selected, the signals will still be scrambled even when Pay TV is selected by the TV set's tuner. At a time like this, either set the VCR to the VCR mode or switch the TV set's input signals to AV input.

## Connection to a Satellite Receiver

- The satellite receiver control functions are activated when connection is made to one of the satellite receivers found on the attached list of compatible satellite receivers, provided that the settings from pages 15 to 17 have been performed prior to connection. Also make absolutely sure that the satellite receiver is installed in a location as per the figure below.
- Also refer to the operating instructions for the satellite receiver.
- The unit may not operate properly if it has not been installed in a satisfactory position.

### Ⓐ By means of 21-pin Scart Cable

After making this connection, proceed with **Auto Setup** on page 12 and then with the **Satellite Settings** on pages 16 and 17.

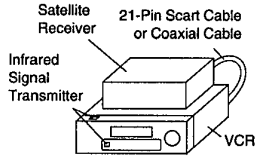



**Notes:**

- Set **RF OFF/TEST SIGNAL** to RF OFF when the VCR is connected to the TV via the 21-pin scart cable.
- When a decoder is to be connected in addition to the satellite receiver, read the Operating Instructions accompanying the decoder.
- The AV LINK function may not work, depending on the type of satellite receiver.
- When the satellite receiver is connected to the AV2 socket, **AV2 Connection** must first be set to **EXT.** (See page 39.)

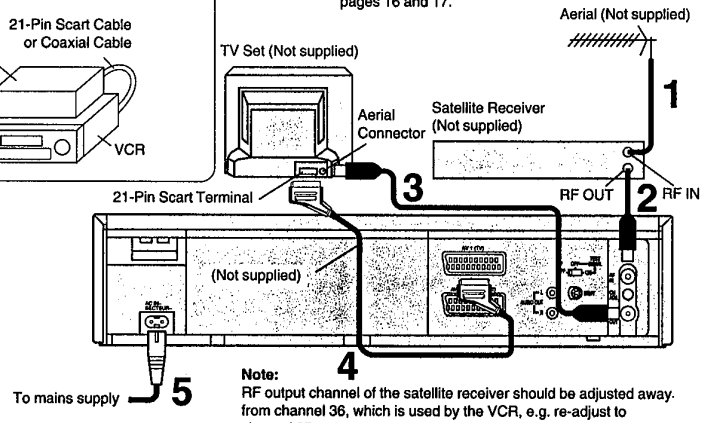
**How to Install**

We recommend that the satellite receiver be placed on top of the VCR, positioned so that the infrared signal transmitter is clearly accessible.




### Ⓑ By means of RF Coaxial Cable

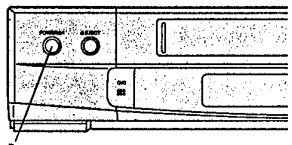
After making this connection, proceed with **Auto Setup** on page 12 first, and then with **Satellite Tuning** on page 15 and the **Satellite Settings** on pages 16 and 17.

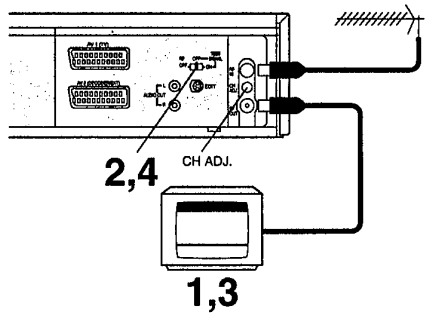



**Note:**
RF output channel of the satellite receiver should be adjusted away. from channel 36, which is used by the VCR, e.g. re-adjust to channel 35.



# Tuning the TV to your VCR



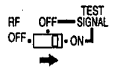

The VCR supplies a signal to the TV set via the RF coaxial cable on channel 36.
It is possible to view the video picture on your TV in the same way that you watch TV broadcasts.

If you have connected the VCR to the TV through the 21-pin scart terminal, then you do not need to follow the procedure mentioned below.

### Operations

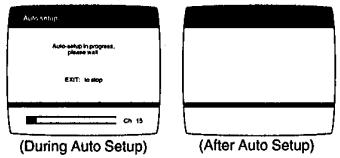
**1**


Turn on the TV and VCR.

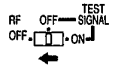
**2** 


To generate a test pattern, set **RF OFF/ TEST SIGNAL** to TEST SIGNAL ON.

**3** **On Screen Display**




Set the TV to an unused position which you wish to use for your video playback.

**4** 


Set **RF OFF/TEST SIGNAL** to TEST SIGNAL OFF.
**Note:** Select your country after automatic setup has been completed. See page 12.

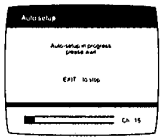
**Note:**
The test signal is transmitted on video channel 36. If you are encountering interference from a TV broadcast on this video channel, you may readjust to another free channel (30–42) by using the **CH ADJ.** screw which is located on the rear of the VCR.
Please note that if the **CH ADJ.** screw is used then you will have to retune your TV to the test signal as in item **2** to **4** above.

# Auto Setup

## Auto Setup

When the VCR is turned on after connecting the aerial lead and the mains lead, Auto setup (Auto tuning and Auto clock setting) starts.

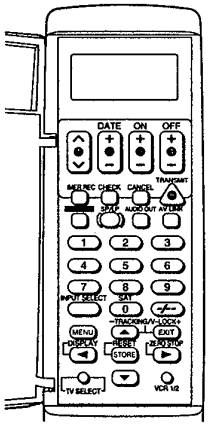
**On Screen Display**



- The Auto setup is searching for TV station from VHF minimum to UHF maximum and memorizing the data for every programme position. The other programme positions are skipped.
- The Auto setup takes five or more minutes to complete the search for TV station and the clock setting.

**Notes:**

- If VCR is not correctly set by Auto setup, see **Various settings** on pages 34–37.
- Auto clock setting will not work correctly if teletext information is not available. If the clock setting screen appears after auto tuning has been completed, set clock manually. See page 37.
- Clock information is subject to teletext information. If year information is not in teletext or time information in teletext is incorrect, set clock manually. See page 37.



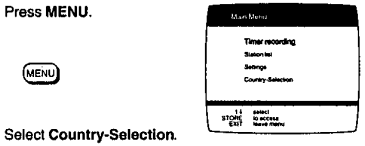

## Country-Selection

After the Auto setup is finished, select your country to set TV station list, guide number for ShowView and language.

### Preparations

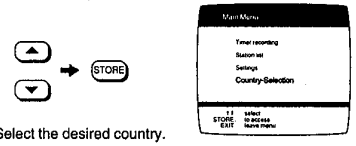
- Confirm that the TV is on and the VCR viewing channel is selected.
- Turn on the VCR.

1 Press **MENU**.



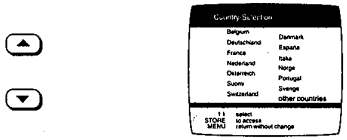
(MENU)

2 Select **Country-Selection**.



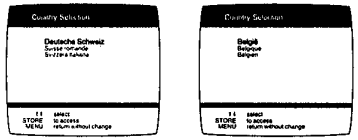
(▲) (▼) → (STORE)

3 Select the desired country.



(▲) (▼)

- When Switzerland or Belgium has been selected, operation moves to the screen which follows. Select the item in accordance with the language required.



4 Press **STORE**, and then press **MENU**.

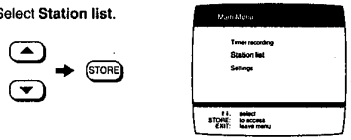
(STORE) → (MENU)

## Viewing the TV station list

1 Press **MENU**.

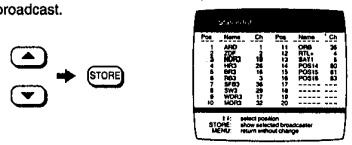
(MENU)

2 Select **Station list**.



(▲) (▼) → (STORE)

3 Select the desired TV station, if you want to view the broadcast.



(▲) (▼) → (STORE)



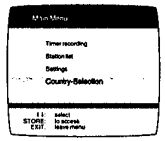
## Auto Set Up Feature Important Information

When your video cassette recorder is plugged in for the first time, the Auto Set Up feature will tune in your channels automatically.
However, under certain circumstances in some transmission areas certain channels may not be assigned a channel name or their normal channel position. If this is the case they will need to be tuned manually. If Auto Set up is not successful, please follow the steps below.

### Operations

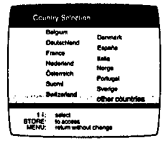
**1** Press **MENU**, (if no clock display, press twice), and select **Country-Selection**.

**On Screen Display**



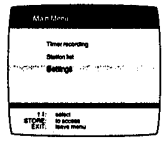
(MENU) → (▼) → (STORE)

**2** Select the desired country.



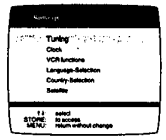
(▲) (▼) → (STORE)

**3** Select **Settings**.



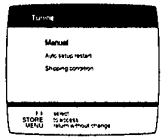
(▼) → (STORE)

**4** Select **Tuning**.



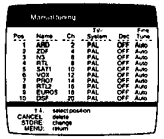
→ (STORE)

**5** Select **Manual**.



→ (STORE)

**6** The STATION LIST is now displayed. (Channel information will vary.)



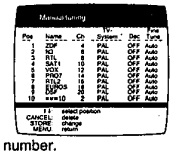
If all station names are displayed, no manual tuning adjustment is needed.

If manual tuning adjustment is required, follow the steps indicated below.

**7** If the correct channels are not shown, the set up needs to be manually adjusted.

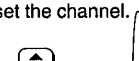
**8** Select the station(s) named ✳✳✳□□.
Establish which channel you are viewing, by checking your TV Guide/ Newspaper.

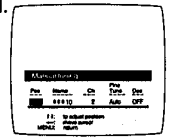
On Screen Display



●"□□" is the position number.
This is the same as steps **11** and **12**.

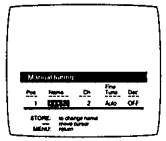
**9** Select the number location you want to set the channel.



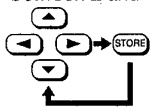


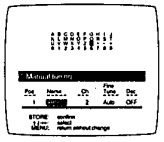
●It is also possible to select by pressing numeric button.

**10** Next, highlight the TV station name.



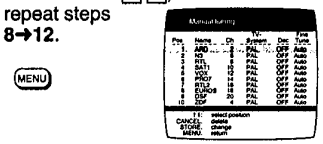
**11** Enter characters into **all** five ✳✳✳□□ positions, from the table using the arrows and press **STORE** after each character. Use blank space if required, to enter a blank select the area between **Z** and ✳.





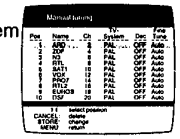
**12** Press **MENU** once.

If any other TV station names are marked ✳✳✳□□, repeat steps **8→12**.



**13** To amend a programme position repeat steps **8**, **9** and **12**.

**14** When correctly tuned your system list will look like this. (Channel information will vary.)



**Note:**
When channels have been set with manual tuning, the channel position will need to be entered in the highlighted box the first time ShowView is used.

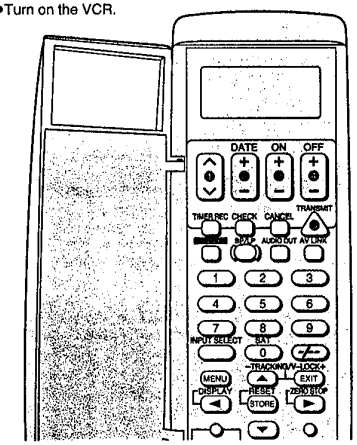
# Satellite Settings

## Satellite Tuning

When the RF connection of Ⓑ on the satellite receiver connection page has been performed, the following settings must be carried out in order to activate satellite control.
These settings are not necessary when the 21-pin cable Ⓐ has been used for the connection. (See page 10.)

### Preparations

●Confirm that the TV is on and the VCR viewing channel is selected.
●Turn on the VCR.



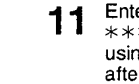
Follow the operation guide on screen display.

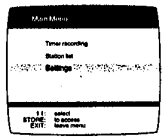
### Operations

**1** Press **MENU**.

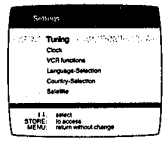
**2** Select **Settings**.

On Screen Display

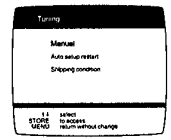




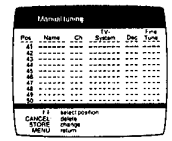
**3** Select **Tuning**.



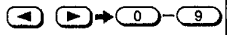
**4** Select **Manual**.

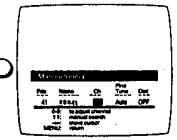


**5** Select unoccupied programme position.

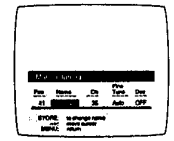


**6** Select a channel **(Ch)** on which satellite broadcasts can be viewed.

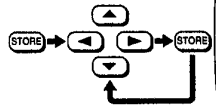




**7** Select the TV station name **(Name)** item.



**8** Enter **"SAT _ _"**.



●"_ _" indicates two blank spaces. Enter the space to the right of the "Z" on the keyboard.
●**"SAT "** is a special term; use it only when a satellite receiver is connected.
●If **"SAT "** is already displayed, this step is unnecessary.

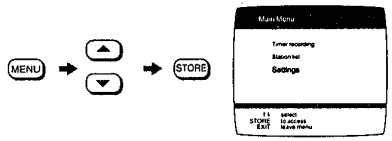
**9** Press **MENU**, and then press **EXIT**.

# Satellite Setting

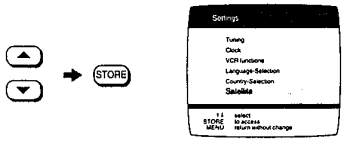
Proceed with the settings described below in order to activate the satellite receiver control functions.
These settings are supported only by the satellite receivers found on the attached list of compatible satellite receivers.

1 Press **MENU**, and then select **Settings**.

**On Screen Display**




2 Select **Satellite**.



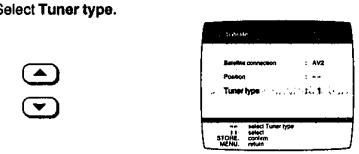

3 Select **Satellite connection**.

4 Select the position where the satellite receiver is connected.

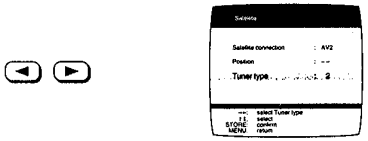
NO: When the satellite receiver is not connected to the VCR.
RF: When the satellite receiver is connected to RF IN socket of the VCR.
AV1: When the satellite receiver is connected to AV1 socket of the VCR.
AV2: When the satellite receiver is connected to AV2 socket of the VCR.

- The **Position** item is also automatically set when **RF** has been selected, and cannot be changed here.

5 Select **Tuner type**.




6 First check the attached list of compatible satellite receivers, and then set the tuner type number.
It is not possible to control a receiver which is not on the attached list of compatible satellite receivers.




- It is also possible to select by pressing numeric button.

7 Press **STORE**, and then press **EXIT**.

# Preset Type

The satellite receiver mode must be set before attempting to select satellite channels or perform timer recording. The procedure to set the mode can be divided into the following 5 types by satellite receiver. Check which one applies on the attached list before proceeding.

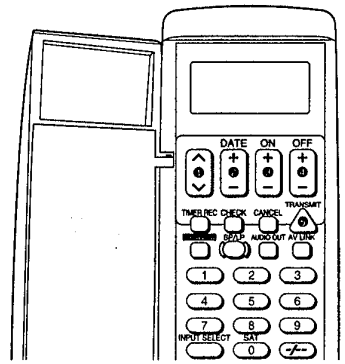
| Preset Type | Controllable functions |
|---|---|
| A | Keep the satellite receiver's power ON. |
| B | No action needs to be taken. (The satellite receiver's power may even be OFF.) |
| C | After having turned on the satellite receiver's power, select the 2-digit display mode. |
| D | Turn on the satellite receiver's power, and switch to the tuner used by the VCR. |
| E | Turn on the satellite receiver's power, and switch to the tuner used by the VCR. Then select the 2-digit display mode for the satellite receiver. |

Check out the compatible satellite receiver list on the attached list thoroughly before purchasing a new receiver.

**Notes:**

- The VCR may not be able to control some products or models of satellite receiver, due to the choice of remote control coding being beyond our control.
- Check that the satellite receiver can be properly controlled.
- Try satellite broadcast timer recording once to check that timer recording works properly.

# How to select the satellite channel

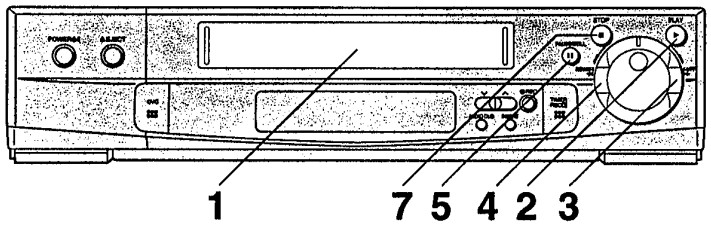


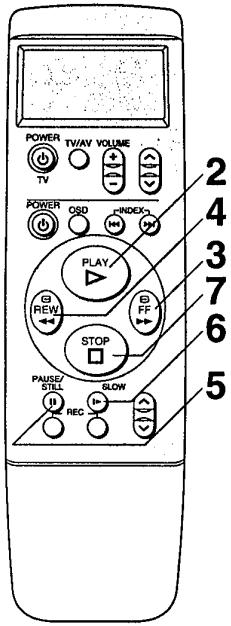

Press the numeric buttons on the remote controller.

SAT 9: SAT 0 → 9
SAT 19: SAT 1 → 9

- There will be a slight delay after pressing a button before channel change occurs. This is due to signal conversion.
- The range of satellite channels available for selection is 1 through 99.
- With some satellite receivers, it is not possible to select satellite channels up to 99.
- With some satellite receivers, it is not possible to select any more channels beyond the highest number of the channels which can be selected by the satellite receiver if that number is 99 or less.
- With some satellite receivers, it is necessary to leave a short interval after selecting one channel before attempting to select another channel.
- If the display on the satellite receiver fails to indicate the channels, refer to the operating instructions of the satellite receiver and follow the procedure for displaying the channels.

# Playback




| Operations | Display Symbols | |
|---|---|---|
| 1 | | Insert a recorded cassette tape. |
| 2 PLAY | | Start viewing the picture. |
| 3 FF | | Search forward by tapping **FF**.<br>●To change back to normal playback, press **PLAY**. |
| 4 REW | | Search backward by tapping **REW**.<br>●To change back to normal playback, press **PLAY**. |
| 5 PAUSE/STILL | | View a still picture.<br>●To continue the normal playback, press **PLAY** or **PAUSE/STILL**. |
| 6 SLOW | | View the slow motion picture.<br>●To continue the normal playback, press **PLAY**. |
| 7 STOP | | Stop viewing the picture. |

**Notes:**
- If you keep **FF** or **REW** pressed in step **3** or **4**, search playback is activated while the button is pressed, and operation returns to normal playback when the button is released.
- The same operation can also be performed by turning the Shuttle Ring briefly clockwise or counterclockwise in step **3** or **4**.

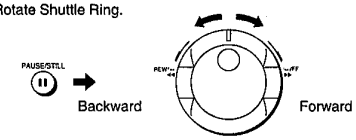


## Other Playback Functions

### To change the Playback Speed

1 Press **PAUSE/STILL** on the VCR.

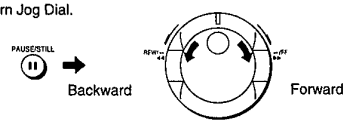
2 Rotate Shuttle Ring.




### To locate the Desired Picture Exactly

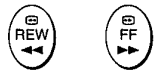
1 Press **PAUSE/STILL** on the VCR.

2 Turn Jog Dial.




### To obtain High Speed Picture during Fast Forward or Rewind

Keep **FF** pressed during fast forward.
Keep **REW** pressed during rewind.




- The same operation can also be performed by turning the Shuttle Ring.

### To playback the Recorded Part Repeatedly

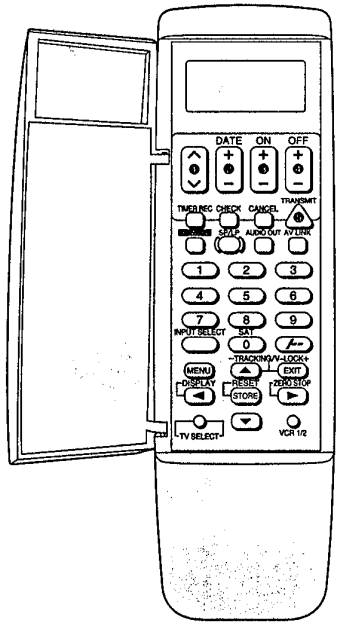
Keep **PLAY** pressed for more than 5 seconds.

- Press **STOP** to release from Repeat Playback mode.

### To return to a Specified Scene

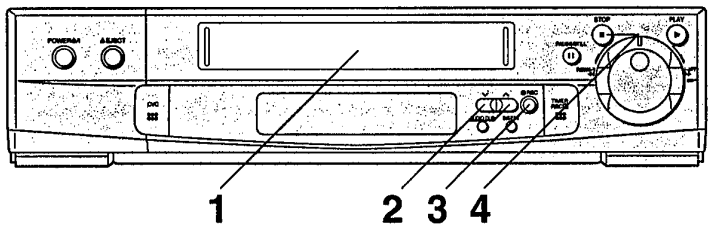
1 Press **RESET** to set the counter to 0:00.00.

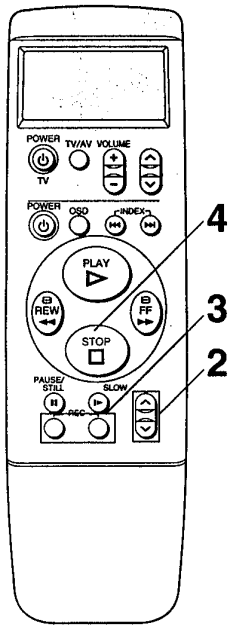
2 After playback, press **ZERO STOP** in the stop mode.
- The tape will be rewound or fast forwarded to 0:00.00 approximately.




**Notes:**
- Audio reproduction of linear (conventionally recorded) tapes will be monaural when played back on the FM Hi-Fi video recorders.
- Cue, review or slow playback will be automatically released after 10 minutes, and still playback after 5 minutes.
- In LP mode only:
  1. During any playback mode other than normal playback, the picture may have some noise bars, the colour may be unstable, or a black and white picture may appear.
  2. When playing back a tape which was recorded on another VCR, it may be necessary to adjust the Tracking Control. In some cases the picture quality may still be inferior. This is due to limitation of format.

# Manual Recording




| Operations | Display Symbols | |
|---|---|---|
| 1 | | Insert a cassette tape.<br>●If it has already been inserted, press **POWER** to turn the VCR on. |
| 2 | | Select TV station. |
| 3 | | Start recording. |
| 4 | | Stop recording. |

### To select the Desired Tape Speed

Press **SP/LP** before recording.

### To interrupt Recording

Press **PAUSE/STILL** during recording.
Press again to continue recording.

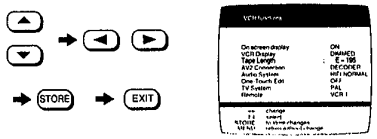
### To record One TV Programme while Viewing Another Programme

1 Refer to the manual recording operations steps 1 to 3.

2 Select the TV programme on your TV set you wish to view at the present time.

### To display the Approximate Remaining Tape Time

1 Select **Tape Length** from On Screen Display and select the corresponding cassette tape length. See page 39.




◀ E-180: For E30, -60, -90, -120 and -180 tapes.
E-195: For E195 tape.
E-240: For E240 tape.
E-260 ▶: For E260 and -300 tapes.

2 Press **DISPLAY**.

→Clock→Counter→**Remaining Tape Time**

●The remaining tape time may not be displayed correctly depending on the tape used.

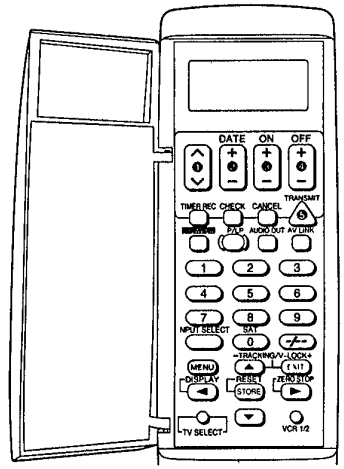
### Recording of Stereo and Bilingual Programmes

1 Recording is automatically made in the stereo or bilingual mode. This prevents errors in the selection of the dubbed or the original language.

2 During playback press **AUDIO OUT** to select the desired sound mode. See page 7.

**Notes:**

●When a video cassette with a broken off tab is inserted, the 'OK' indication will flash to indicate that recording is not possible.
●The recording pause mode will be automatically released after 5 minutes, and be back to the stop mode.




### The NICAM Broadcast System (NV-HD660EC only)

NV-HD660EC is equipped with the NICAM sound system also.
NICAM is a 2 Channel sound broadcast system to provide either a high quality stereo sound track or
2 independent MONO sound tracks, M1 and M2.
NICAM programmes are always accompanied by standard sound broadcasts and you can select the desired sound with **AUDIO OUT** during playback.

●The NICAM digital stereo sound can only be recorded on the Hi-Fi audio track.
●To record the regular sound (ordinary normal sound) on the FM audio tracks when a Stereo, Bilingual or NICAM programme is received, select **Mono ON** during manual tuning procedure. See page 34.

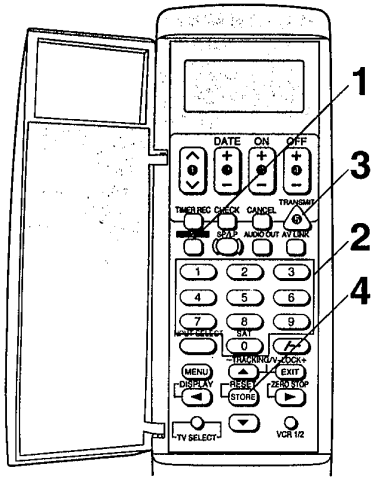
**Important Note for the NICAM System**

When NV-HD660EC is switched on, the tuner will automatically switch to a NICAM broadcast, if NICAM is being transmitted. During test transmissions, it is possible that the sound received doesn't correspond to the picture being viewed. In order to receive a synchronized sound and picture, select monaural sound with **AUDIO OUT** or **Mono ON** setting. This will only apply until NICAM transmissions are fully operational.
Even if the sound track is in MONO, the stereo indicator will appear.

# Timer Recording

## ShowView Programming

Programming is now easier than ever: simply enter the ShowView number provided in the programme schedule column carried by newspapers and magazines. ShowView numbers are numbers which are assigned to each programme listed in the TV programme schedule carried in newspapers and TV guides. When these numbers are entered and **TRANSMIT** is pressed, the numbers are converted into the actual programming.

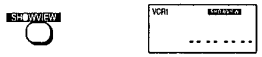



### Preparations

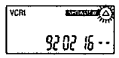
- Insert a cassette tape with an intact erasure prevention tab.
- Confirm that the TV is on and the VCR viewing channel is selected.

| Operations | Display Symbols |
|---|---|

**1** Press **SHOWVIEW**.

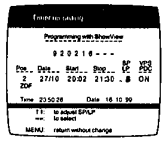



**2** Enter a ShowView number.
Example: 920216



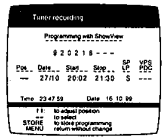

**3** Press **TRANSMIT**.

**On Screen Display**



- To extend the ending time or to make any corrections, use buttons ▲ ▼ ◄ ►.
- Set **VPS/PDC** to **OFF** when the recording time is not the correct time (PDC/VPS time).

**If the "--" appears in the programme position:**
select the programme position of your VCR which receives the TV station you entered at step **2** using button ▲ or ▼.



- Next time ShowView code for this station is entered, the correct position will appear.

**When satellite broadcasts have been programmed:**
Only when first time use ShowView code for Satellite channels, "--" appears on the programme position item.
In this case, press the numeric buttons to input the satellite channel.

SAT 9: SAT (0) → SAT (0) → (9)
SAT 19: SAT (0) → (1) → (9)

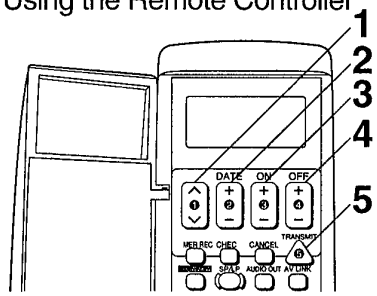
- Next time ShowView code for this station is entered, the correct position will appear.

**4** Press **STORE** to confirm.

- The VCR will be change to the timer recording standby mode after about 20 seconds, if **STORE** is not pressed.

**Notes:**
- To release from the standby mode, press **TIMER REC**.
- When the ShowView number is used for programming, the recording time may be slightly longer than the actual programme time.
- When programming two or more programmes, repeat steps **1–4**.
- The procedures for checking and cancelling a timer programme are the same as on page 26.

## Using the Remote Controller




### For Example:

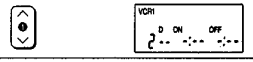
| | |
|---|---|
| Programme position (channel); | 2 |
| Date; | 27th, October |
| Starting time; | 20:00 |
| Ending time; | 21:30 |

### Preparation

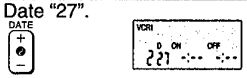
- Insert a cassette tape with an intact erasure prevention tab.
- Open the door of the remote controller.

| Operations | Display Symbols |
|---|---|

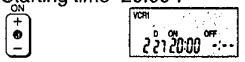
**1** Set Programme position (channel) "2".




**2** Set Date "27".



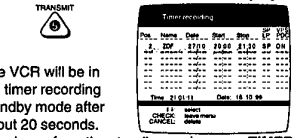

**3** Set Starting time "20:00".




- When it is kept pressed, the indication changes in 30-minute steps.

**4** Set Ending time "21:30".

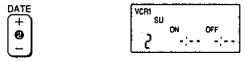
**5** Press **TRANSMIT**. **On Screen Display**



- The VCR will be in the timer recording standby mode after about 20 seconds.
- To release from the standby mode, press **TIMER REC**.
- Set **VPS/PDC** to **OFF** when the recording time is not the correct time (PDC/VPS time).

### Weekly Timer Recording

In step **2**, select the desired day by pressing **DATE** –.
For example, SU (Sunday)



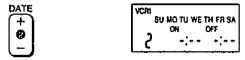

(SU=Sunday, MO=Monday, TU=Tuesday, WE=Wednesday, TH=Thursday, FR=Friday, SA=Saturday)

### Daily Timer Recording

For this timer function, several groups of days can be selected.

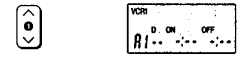
Ⓐ Daily recording from Monday to Friday
Ⓑ Daily recording from Monday to Saturday
Ⓒ Daily recording from Sunday to Saturday

In step **2**, select the desired days by pressing **DATE** –.
For Example, Ⓒ




### Timer Recording from External Signal Source

If Timer Recording is performed by a unit connected to the AV1 (TV), AV2 (DECODER/EXT) Socket or AV3 (Audio/Video input sockets), select the A1, A2 or A3 indicator for the programme position.
A1: Through the AV1 (TV) socket.
A2: Through the AV2 (DECODER/EXT) socket.
A3: Through the AV3 (AUDIO IN/VIDEO IN) sockets on front panel.




### Selecting the Desired Tape Speed

Press **SP/LP** in any of steps **2–4**.

### Checking and Cancelling a Timer Programme

The procedures for checking and cancelling a timer programme are the same as on page 26.

**Note:**
Timer recording of satellite broadcasts cannot be performed using ∨ ∧, **DATE**, **ON**, **OFF** and **TRANSMIT** on the remote controller.

# Using On Screen Display

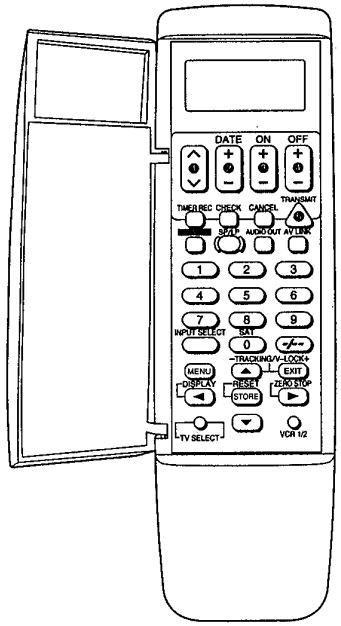
Up to 8 timer programmes can be recorded up to one month in advance by setting the timer, including weekly and daily programmes.

## Preparations

- Insert a cassette tape with an intact erasure prevention tab.
- Confirm that the TV is on and the VCR viewing channel is selected.

## For Example:

Programme position (channel); 2
Date; 27th, October
Starting time; 20:02
Ending time; 21:30
(Present date; 16th, October)

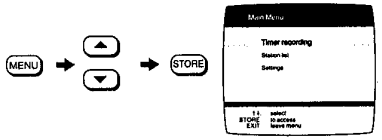



Follow the operation guide on screen display.

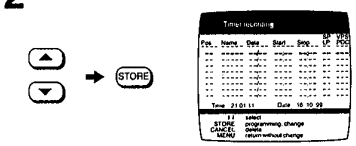
## Operations

**1** Press **MENU**, and then select **Timer recording**.

On Screen Display

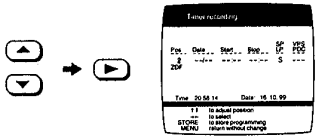



**2** Select the unoccupied position.

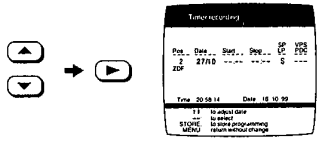



**3** Set **Programme position** (channel) "2".

- Press ◄ to return to the previous item.

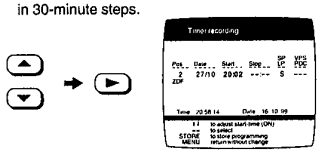


**4** Set **Date** "27/10".



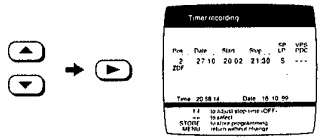
**5** Set **Starting time** "20:02".

- When it is kept pressed, the indication changes in 30-minute steps.

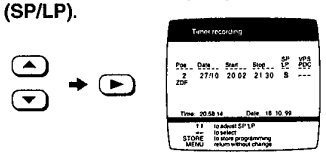


**6** Set **Ending time** "21:30".

On Screen Display

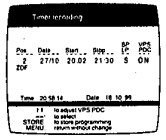


**7** Select the desired **Tape speed (SP/LP)**.



**8** Select **VPS/PDC ON** or **OFF (---)**.

- Set **VPS/PDC** to **OFF** when the recording time is not the correct time (PDC/VPS time).
- During satellite channel timer programming, **VPS/PDC** cannot be set to **ON**.



**9** Press **STORE**.

**10** To activate timer recording, press **TIMER REC**.

### Weekly Timer Recording

In step **4**, select the desired day by pressing ▼.

### Daily Timer Recording

For this timer function, several groups of days can be selected.

Ⓐ Daily recording from Monday to Friday
Ⓑ Daily recording from Monday to Saturday
Ⓒ Daily recording from Sunday to Saturday

In step **4**, select the desired days by pressing ▼.

### Timer Recording from External Signal Source

If Timer Recording is performed by a unit connected to the AV1 (TV), AV2 (DECODER/EXT) Socket or AV3 (Audio/Video input sockets), select the A1, A2 or A3 for the programme position.

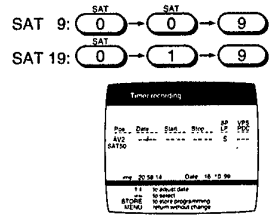
A1: Through the AV1 (TV) socket.
A2: Through the AV2 (DECODER/EXT) socket.
A3: Through the AV3 (AUDIO IN/VIDEO IN) sockets on front panel.

### Setting other Programmes in Succession

Repeat steps **2–9**.

### Satellite Channel Programmed Recording

When selecting the programme position (channel), use the numeric buttons to select a satellite channel.



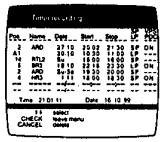

- VPS/PDC programming is not possible in conjunction with satellite programmed recording.
- In the case of some satellite receivers, the power remains off for several seconds when timer recording commences.
- With some satellite receivers, the first several seconds will not be recorded when the timer recording function is used.
- With some satellite receivers, the power goes off if the recording is stopped while timer recording is still underway.

## Checking a Timer Programme

- The VCR must be turned on, or the timer recording indicator "⏲" is lit.
- Confirm that the TV is on and the VCR viewing channel is selected.

Press **CHECK**.

**On Screen Display**



- On Screen Display may be distorted in the PDC/VPS recording standby mode.

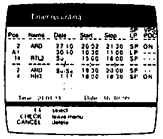
## Cancelling a Timer Programme

- The VCR must be turned on, or the timer recording indicator "⏲" is lit.
- Confirm that the TV is on and the VCR viewing channel is selected.

1 Press **CHECK**.

2 Select the desired timer programme.

3 Press **CANCEL**.



**Note:**
If a timer recording is not performed to the end (due to insufficient tape or cancellation by the user), the programmed timer recording data will be cancelled from the memory by 4 a.m. the next day.
However, if the Timer Record Function is activated at that time, the programmed timer recording data will be cancelled at 4 a.m. the next day.

## PDC (Programme Delivery Control)/VPS (Video Programme System)

The Programme Delivery Control (PDC) or the Video Programme System (VPS) is a very convenient system which assures that the TV programmes you have programmed for timer recording will be recorded exactly from beginning to end, even if the actual broadcasting time differs from the scheduled time due to delayed start or extension of the programme duration. Also, if a programme is interrupted and, for example, some special news are inserted, the recording will also be interrupted automatically and resumed when the programme continues.

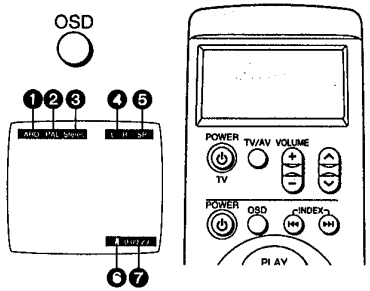
- In the case of PDC/VPS recording, use the **correct** time (PDC/VPS time) for recording the TV programmes. PDC/VPS recording is not performed when the time (PDC/VPS time) is incorrect, even if only by one minute. To find out the correct time (PDC/VPS time), consult Teletext, a newspaper or magazine, etc.
- If the actual broadcasting times of timer recordings overlap (regardless of whether they are PDC/VPS controlled), the recording that starts first has always priority, and the recording of the later beginning programme will start only after the first timer recording has finished.
- When the PDC/VPS signal drops out because the broadcast signal is weak, or when a broadcasting station does not transmit a regular PDC/VPS signal, the timer recording will be performed in the normal mode (without PDC/VPS) even if it was programmed for PDC/VPS. In this case, even if the timer recording is performed, whatever has been programmed will not be cancelled at that particular time but at 4 a.m. on the following day.





# On Screen Display

Press **OSD** to make the On Screen Display appear on the TV screen.




**❶ TV station**

**❷ TV system**

**❸ Stereo or Bilingual Indicator (NV-HD660EG)**
When receiving a TV programme, the type of sound system in which it is broadcast is automatically indicated.

**Stereo, M1 and M2 Indicator (NV-HD660EC)**
When receiving a TV programme with the Stereo, Bilingual or NICAM sound system, the type of sound system in which it is broadcast is automatically indicated.
Stereo: When receiving a Stereo/NICAM stereo broadcast.
M1 M2: When receiving a Bilingual/NICAM dual-sound broadcast.
M1: When receiving a NICAM monaural broadcast.

**❹ Audio Output Mode Indicators**
The Left (L) and Right (R) Indicators show which sound mode is selected with **AUDIO OUT**.
Stereo: Both the L and R Indicators appear.
Left: The L Indicator appears.
Right: The R Indicator appears.
Normal: Both the L and R Indicators don't appear.

**❺ Tape speed indicator**

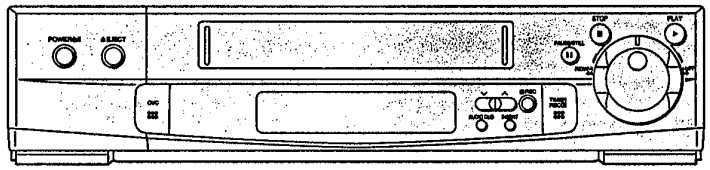
**❻ Tape running display**

| | |
|---|---|
| Stop, Eject | ▮ |
| Rewind | ◀◀ |
| Fast Forward | ▶▶ |
| Playback | ▶ |
| Recording | ● |
| Repeat Playback | R |
| Insert Editing | INSERT |
| AV Insert Editing | AV INSERT |
| Audio Dubbing | ADUB |

**❼ Present time/Tape counter/Remaining tape time**

| Information | Display |
|---|---|
| Present time | 17:24:31 |
| Tape counter | −2:35.47 |
| Remaining tape time | REMAIN 2:34 |

**Notes:**
- When the item **"On screen display"** is set to OFF (See page 38.), the On Screen Display will not appear.
- When the programme position AV is selected or during playback, the On Screen Display (❶, ❷, ❸) will not appear.
- The On Screen Display does not appear in positions ❹, ❺, ❻ or ❼ during special playback.
  However, editing display such as **"ADUB"** appears in position ❻, ❼ even during still picture.



## VHS Index Search System

It is very easy to find the beginning of each recording, because a special index signal is recorded at the start of each recorded segment on the tape.

**For example:**
Searching for the 2nd recorded segment in the forward direction.

Press **INDEX ▶▶I** twice.

- After finding the specific recorded segment, playback starts automatically.
- For the reverse direction, press **INDEX I◀◀**.
- Up to 20 index signals can be searched for in both directions.
- When the opposite **INDEX** button is pressed, the number shall be decreased till 1.
- The figure on the display is decremented by 1 each time an index signal is located.
- The INDEX search function can only work correctly, if the index signals are spaced at least 3 minutes apart in the SP mode and 5 minutes apart in the LP mode.

**Recording Index Signals**
Index signals are recorded in following cases.
- When a recording is started by pressing **REC**.
- When **REC** is pressed during recording.
- When timer recording is activated.

## NTSC Playback

Tapes recorded in the NTSC system can be played back with this VCR via a PAL system TV set.
- The playback picture may roll up or down. If the TV set is equipped with a V-HOLD control, it may be possible to stop the picture movement by adjusting this control.
- Depending on the TV set used, the picture may be in black and white. However, this is not an indication of a malfunction.

## S-VHS Quasi Playback (SQPB)

It is also possible to playback tapes recorded in the S-VHS system.
- Some picture noise may occur depending on the type of tape used.
- It is not possible to fully obtain the high resolution that S-VHS is capable of.
- It is not possible to record in the S-VHS system with this VCR.

## Other Automatic Functions

### Automatic Playback
When a cassette without an erasure prevention tab is inserted, the VCR starts playback automatically.

### VCR-off Playback
When the VCR is off, an inserted cassette can be played back by pressing **PLAY**.

### Automatic Rewinding
When the tape reaches its end during recording (except for timer recording) or playback, it will automatically be rewound to the beginning.

### Automatic Switching Off and Ejection
When the VCR is switched off, and inserted cassette can be ejected simply by pressing **EJECT**. The VCR will eject the cassette and automatically turn itself off again.



# Editing

## Assembly Editing

This function can be used to make up an edited tape from other recordings or video sources.

A new scene can be added to the end of a previous one.

### Preparations
- Connect a movie camera or another VCR to this VCR as shown.
- Insert a recorded cassette tape with an intact erasure prevention tab.
- Select the video source required by pressing **INPUT SELECT** to set A1, A2 or A3.
  A1: Through the AV1 (TV) socket.
  A2: Through the AV2 (DECODER/EXT) socket.
  A3: Through the AV3 (AUDIO IN/VIDEO IN) sockets on front panel.

### Operations

**1** Press **PAUSE/STILL** on the recording VCR.

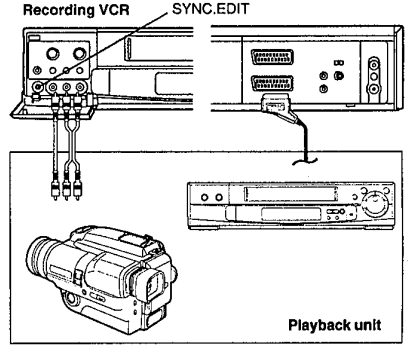
**2** Search for the end of the previous recording.

**3** Press **REC** to switch the VCR from the pause mode to the recording standby mode.

**4** Start the new recording by pressing **PAUSE/STILL** again.

**5** Press **STOP** to stop recording.

**Note:**
The new sound will be recorded on both the normal and Hi-Fi sound tracks, only monaural sound recording is possible on the normal sound tracks.




## Synchronized Editing

It is possible to synchronize the playback start and stop of the Movie Camera with the recording start and stop of this VCR.

**Preparations**
- Connect a Movie Camera to this VCR with Synchro Connection Cord (VW-K10E/VW-K1E). Refer to the Operating Instructions of the movie camera for details on which code to use.
- Select **One-Touch-Edit** to OFF for synchronized editing. (See page 40.)

1 Put the VCR in the recording pause mode by pressing **REC** and **PAUSE/STILL**.

2 Put the Movie Camera in the still playback mode at the point where you want to start editing.

3 Press **PAUSE/STILL** on the VCR.
- The Movie Camera changes over to the playback mode and the dubbing will start automatically.

**Synchronized Editing between the VCRs**
When editing from another VCR equipped with Synchro Edit Socket, synchronized start and stop of both VCRs can be activated from this VCR.

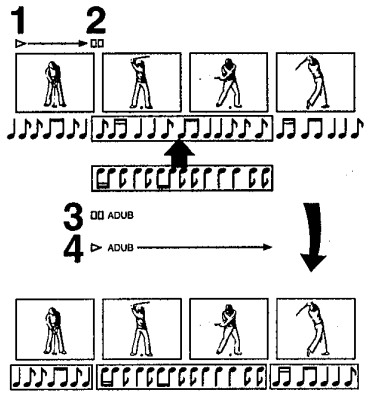
The operation is the same as described for synchronized editing from a Movie Camera.

# Audio Dubbing

The audio dubbing is made on the normal audio track and erases the original sound on this track. On Hi-Fi audio tracks, however, the original sound is maintained.

## Preparations

- Insert a recorded cassette with an intact erasure prevention tab.
- Select the video source required by pressing **INPUT SELECT** to set A1, A2 or A3.
  A1: Through the AV1 (TV) socket.
  A2: Through the AV2 (DECODER/EXT) socket.
  A3: Through the AV3 (AUDIO IN) sockets on front panel.




| Operations | Display Symbols | |
|---|---|---|
| 1 PLAY | | Search for the starting point for audio dubbing. |
| 2 PAUSE STILL | | Press **PAUSE/STILL** at the starting point. |
| 3 AUDIO DUB | On Screen Display | Set for audio dubbing by pressing **AUDIO DUB.**<br>•On some televisions, the screen image may become unstable or begin to scroll at this point. However, this is not an indication of a malfunction. |
| 4 PAUSE STILL | | Start recording the new sound by pressing **PAUSE/STILL.**<br>•Stop recording by pressing **STOP.** |

**Note:**
The new sound will be recorded on the normal sound track of the tape, and the original sound will remain on the Hi-Fi sound track. Only monaural sound recording is possible on the normal sound track.

To hear the new sound, select the normal sound track by pressing **AUDIO OUT.**
To hear the new sound and original sound mixed together, set **Audio System** to HIFI-MIX. (See page 39.)





## Audio dubbing with Panasonic HI-FI VCR

**General**
a) Due to VHS format reasons, audio dubbing can be performed only on the normal audio track.
b) The Hi-Fi audio tracks cannot be influenced without erasing the video signal.
c) The audio dubbing function is provided with an automatic recording function. The volume level cannot be adjusted. When dubbing to the Hi-Fi VCR, the volume level must be considered in advance.
d) There are three types of audio dubbing (A–C):

### A. Audio dubbing on the normal audio track

1. Select the desired AV input.
1.2. The microphone input may also be selected. In this case, the microphone signal has priority.
   Disconnect the microphone when other audio signals are to be used.
2. Locate the recording starting point by pressing **PLAY-PAUSE.**
3. Press **AUDIO OUT** three times to select the normal audio track.
4. Press **AUDIO DUB.**
5. Start audio dubbing by releasing the pause function.
6. After audio dubbing has been completed, rewind the tape and make sure that the normal audio track is selected. (Step 3)
7. Check the audio dubbing.

### B. Audio dubbing on the normal audio track with Hi-Fi Mix function

1. Select the desired AV input.
2. Locate the recording starting point by pressing **PLAY-PAUSE.**
3. The Hi-Fi tracks should be set to playback.
   •When a videocassette is inserted, the Hi-Fi tracks are automatically set to playback.
   •Hi-Fi tracks must be recorded. Copy the audio signal, if necessary.
4. Press **AUDIO DUB.**
5. Start audio dubbing by releasing the pause function.
6. After audio dubbing has been completed, rewind the tape and set **Audio System** to HIFI-MIX. (See page 39.)
7. Check the audio dubbing.
   The original sound and the new sound are heard simultaneously.

### C. Audio dubbing on the normal audio track with original sound and new sound

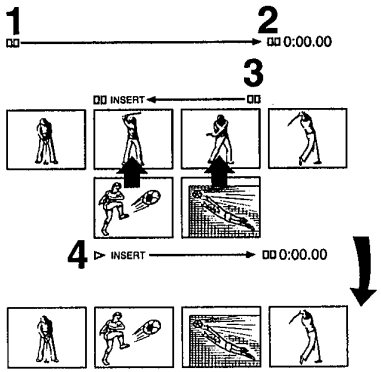
1. Select the desired AV input.
2. Locate the recording starting point by pressing **PLAY-PAUSE.**
3. The Hi-Fi tracks should be set to playback.
   •When a videocassette is inserted, the Hi-Fi tracks are automatically set to playback.
   •Hi-Fi tracks must be recorded. Copy the audio signal, if necessary.
4. Press **AUDIO DUB.**
   •Input the original signals of the Hi-Fi tracks (Audio-Out) to a mixing console (optional) and mix with the new sound as required.
5. Start audio dubbing by releasing the pause function.
6. After audio dubbing has been completed, rewind the tape and make sure that the normal audio track is selected. (Step 3)
7. Check the audio dubbing.

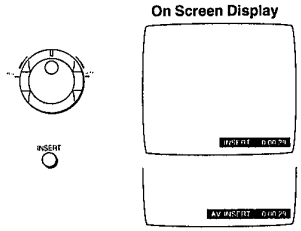
# Insert Editing

This is used to substitute one scene for another providing.

## Preparations

- Insert a recorded cassette with an intact erasure prevention tab.
- Select the video source required by pressing **INPUT SELECT** to set A1, A2 or A3.
  - A1: Through the AV1 (TV) socket.
  - A2: Through the AV2 (DECODER/EXT) socket.
  - A3: Through the AV3 (AUDIO IN/VIDEO IN) sockets on front panel.




| Operations | Display Symbols | |
|---|---|---|
| 1 | | Press **PAUSE/STILL** on recording the VCR. |
| 2 | | Search for the Edit out (ending) point, and set the counter to 0:00.00 by pressing **COUNTER RESET**. |
| 3 |  | Search for the Edit in (starting) point, and press **INSERT**.<br>• If you want to replace the sound on the "normal" audio track, press **AUDIO DUB**, too. (AV Insert Editing) |
| 4 | | Start insert editing by pressing **PAUSE/STILL**.<br>• The insert editing will finish when the counter reaches 0:00.00. |

**Note:**
Insert Editing cannot be used on blank sections of a tape. In this case use Assembly Editing first.

The new sound will be recorded on the Hi-Fi sound track. If AUDIO DUB selected, the new sound will also be recorded on the normal sound track.

Only monaural sound recording is possible on the normal sound tracks.

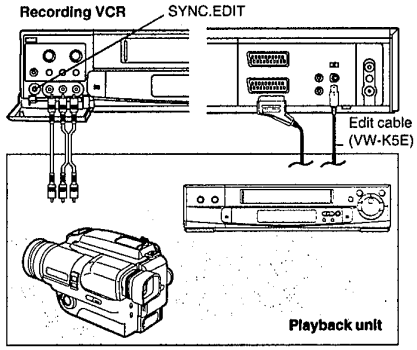


# One-Touch-Editing

With this editing, it is easy to perform repeated assemble editing, insert editing or audio dubbing operations.

## Preparations

- Before proceeding with the connections, check that the AC mains lead of both VCRs have been connected.
- Before the VCR is connected to a movie camera or another VCR, select **One-Touch-Edit** to ON. (See page 40.) The playback VCR display or movie camera viewfinder image may be abnormal if the edit cable is connected with **One-Touch-Edit** left OFF.
- Connect a movie camera or another VCR to this VCR as shown with an edit cable (VW-K5E). In case of you connect this unit to a VCR or a movie camera equipped with a LANC socket, use the **SYNC. EDIT** socket. Also refer to the operating instructions for the playback unit.
- Insert a recorded cassette tape with an intact erasure prevention tab.
- Select the video source required by pressing **INPUT SELECT** to set A1, A2 or A3.
  - A1: Through the AV1 (TV) socket.
  - A2: Through the AV2 (DECODER/EXT) socket.
  - A3: Through the AV3 (AUDIO IN/VIDEO IN) sockets on front panel.
- Upon completion of the One-Touch Editing, disconnect the edit cable.




## Operations

1. Press **PAUSE/STILL** on the recording VCR.

2. Search for the end of the previous recording.

3. Press **REC** to switch the VCR from the pause mode to the recording standby mode.

- The playback VCR will be in still mode.
- If **INSERT** or **AUDIO DUB** is pressed instead of **REC**, Insert Editing or Audio Dubbing can be performed.

4. Search for the Edit in (starting) point on the playback VCR.

5. Start One-Touch-Editing by pressing **PAUSE/STILL** again.

6. Press **PAUSE/STILL** at the Edit out (ending) point on the playback VCR.

- For Editing in succession, repeat 4 to 6.

7. Press **STOP** to stop editing.

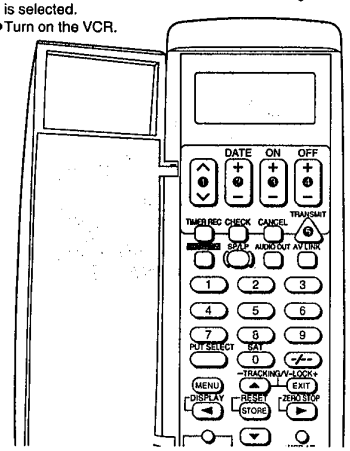
# Storing TV Broadcasts into your VCR

## Introduction

The VCR is fitted with its own tuner (just like a normal TV set) and can be pre-set to receive up to 99 TV broadcast stations.
If VCR is not correctly tuned by Auto setup, follow the procedure bellow.

## Preparations

- Confirm that the TV is on and the VCR viewing channel is selected.
- Turn on the VCR.




# Manual Tuning Procedure

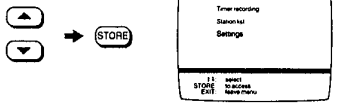
Follow the operation guide on screen display.

## Operations

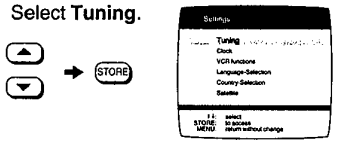
**1** Press **MENU**.

**2** Select **Settings**.

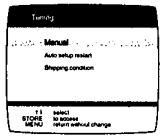
On Screen Display



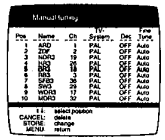

**3** Select **Tuning**.



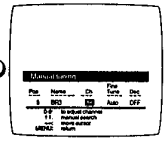

**4** Select **Manual**.




**5** Select desired programme position.



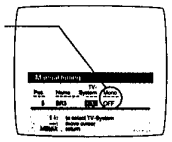

**6** Select Channel **(Ch)**.




**7** Select **Dec ON** or **Dec OFF**.
ON: To preset pay TV stations.
OFF: To preset normal TV stations.

**8** Use ◄ ► to display the next screen.
Select **TV System**.
PAL: For receiving PAL signal.
MESECAM: For receiving SECAM signal.

**NV-HD660EC only**




**9** **NV-HD660EC only**
Select **Mono OFF**.
- Select **Mono ON** to record the normal sound during a stereo, bilingual or NICAM broadcast or if the stereo sound is distorted due to inferior reception conditions.

**10** Press **MENU**, and then press **EXIT**.



## Channel Plan

| Channel Indication | TV Channel | |
|---|---|---|
| | Germany/Italy | Other Countries |
| 2–12 | *E2–E12 | E2–E12 |
| 13–20 | A–H (Only Italy) | — |
| 21–69 | 21–69 | 21–69 |
| 74–78 | S01–S05 | S1–S5 |
| 80–82 | S1–S3 | M1–M3 |
| 83–89 | S4–S10 | M4–M10 |
| 90–99 | S11–S20 | U1–U10 |
| 121–141 Hyperband | **S21–S41 | S21–S41 |

*In Italy: H1...(11), H2...(12)
**Only for 8 MHz channel raster

## To change the programme position or TV station name:

After step **5** but before step **8**, select the programme position **(Pos)** or TV station name **(Name)** item using ◄ ►, and then make the desired change.
(See pages 13–14.)
- No changes can be made to the TV station name while "**SAT** " is displayed when **Satellite connection** is set to **RF**. (See page 16.)

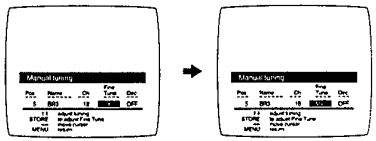
## Fine Tuning Procedure

Follow steps **1** to **5** on page 34.

**6** Select **Fine Tune**.

**7** Press ▲ or ▼ to obtain the best tuning condition.
- To return the tuning to its former state, press **STORE**.

On Screen Display



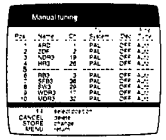

**8** Press **MENU**, and then press **EXIT**.

## Blanking of Unoccupied Programme positions

Follow steps **1** to **4** on page 34.

**5** Select the desired TV station.

**6** Press **CANCEL**.




- Repeat steps **5** and **6** for another unoccupied programme positions to skip during the selection of the programme positions.

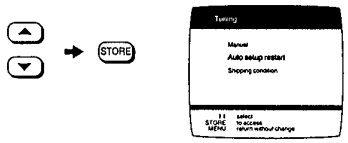
**7** Press **EXIT**.

## Auto Setup Restart

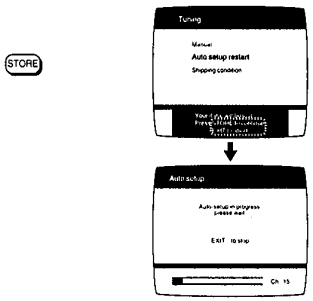
When your address changes, follow the procedure below.
Follow the steps **1** to **3** on page 34.

4 Select **Auto setup restart**.

On Screen Display




5 Press **STORE**.

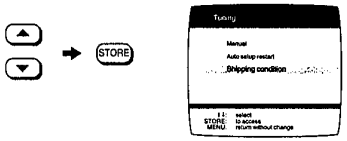



- After the Auto setup, select the your country to set TV station list, guide number for ShowView and language. See page 12.

## Shipping Condition

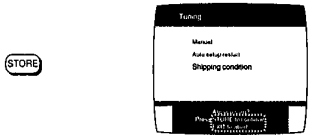
If you want to return the VCR to the factory-preset condition, follow the procedure below.
Follow the steps **1** to **3** on page 34.

4 Select **Shipping condition**.




5 Press **STORE**.

6 Press **STORE** again.




**Note:**
To re-tune VCR, disconnect mains lead and then reconnect mains lead. If VCR is off, turn on the VCR. Auto setup starts.





# Setting the Clock of your VCR

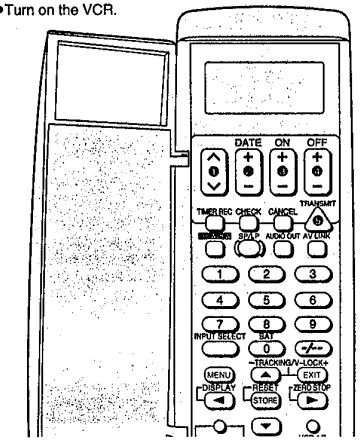
The built-in clock is used to activate the timer for automatic recording and must be set to the correct time.

The built-in digital clock employs the 24-hour system.

If VCR is not correctly set by Auto setup, follow the procedure below.

### Preparations

- Confirm that the TV is on and the VCR viewing channel is selected.
- Turn on the VCR.




## Manual Clock Setting

Follow the operation guide on screen display.

### Operations

**1** Press **MENU**, and then select **Settings**.

**2** Select **Clock**.

**3** Select **Manual setting**.

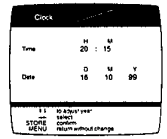
**4** Set **Time (H/M)**.
- When it is kept pressed, the indication changes in 30-minute steps.
- Press ◄ to return to the previous item.

**5** Set **Date (D)**.

**6** Set **Month (M)**.

**7** Set **Year (Y)**.
- There is no need to press ►.

On Screen Display



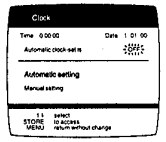

**8** Press **STORE**.
- The clock will start.

**9** Press **EXIT**.

## Automatic Clock Setting

Follow steps **1** to **2** of the above procedure.

3 Select **Automatic setting**.



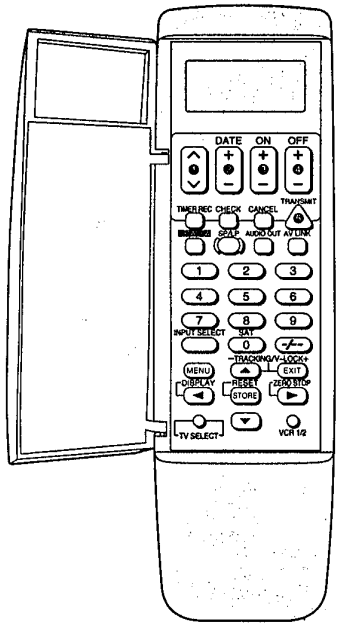

4 Press **STORE**.
- The clock is set automatically.

**Notes:**
- The clock operates for at least 60 minutes by its backup system in the event of power failure.
- When the item **"Automatic clock-set is"** is ON on screen display, Automatic time correcting function is activated.
  The Automatic time correcting function is only activated when the power is off. This function is not activated during timer recording standby mode.

# Settings Using On Screen Display

## Preparations

- Confirm that the TV is on and the VCR viewing channel is selected.
- Turn on the VCR.

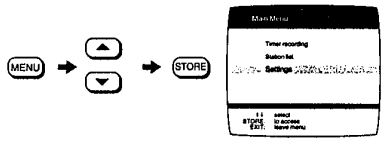



# VCR functions

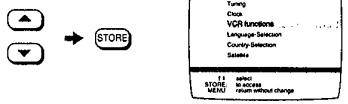
## On Screen Display

1 Press **MENU**, and then select **Settings**.

On Screen Display




2 Select **VCR functions**.




3 Select **On screen display**.

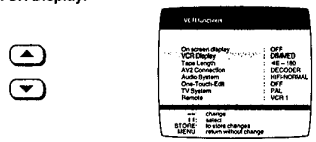
4 Select **ON** or **OFF**.

ON: The On Screen Display will appear on the TV screen by pressing **OSD**.
OFF: The On Screen Display will not appear even if **OSD** is pressed.

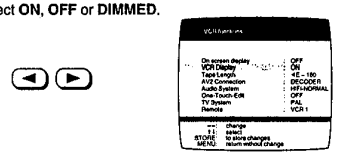
## VCR Display

1 Select **VCR Display**.

On Screen Display



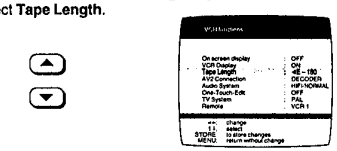
2 Select **ON, OFF** or **DIMMED**.



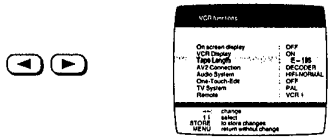
ON: When VCR is turned off, the characters are lit in the VCR display.
OFF: When VCR is turned off, the characters are not lit in the VCR display.
DIMMED: When VCR is turned off, the characters are dimmed in the VCR display.

## To select the Corresponding Cassette Tape Length for Displaying the Approximate Remaining Tape Time

1 Select **Tape Length**.



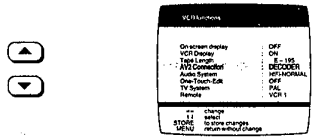
2 Select the corresponding cassette tape length.



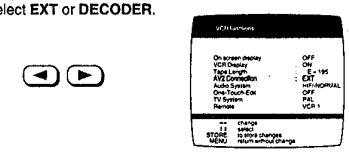
◀ E-180: For E30, -60, -90, -120 and -180 tapes.
E-195: For E195 tape.
E-240: For E240 tape.
E-260 ▶: For E260 and -300 tapes.
- The times displayed may differ depending on the tape used.

## AV2 Connection

1 Select **AV2 Connection**.



2 Select **EXT** or **DECODER**.

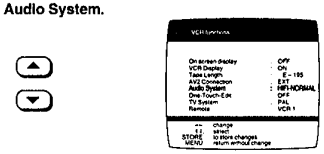


EXT: When another VCR or satellite receiver is connected to the AV2 (DECODER/EXT) socket.
DECODER: When the decoder is connected to the AV2 (DECODER/EXT) socket.

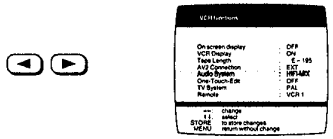
If **Satellite connection** is set to **AV2** (See page 16.), **AV2 Connection** is set to **EXT** automatically.

## Audio System

1 Select **Audio System**.



2 Select **HIFI-NORMAL** or **HIFI-MIX**.

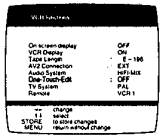


HIFI-NORMAL: Normally set at this position to reproduce the better sound available from the Hi-Fi track.
HIFI-MIX: Both sound tracks (the Hi-Fi sound track and the normal sound track) are played back mixed together. Use this setting when playing back a cassette tape which has been insert edited or audio dubbed.

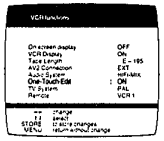
## One-Touch-Edit

1 Select **One-Touch-Edit**.

On Screen Display



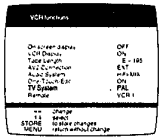
2 Select **ON** or **OFF**.



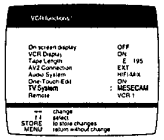
ON: For One-Touch-Editing.
OFF: For editing with editing controller or synchronized editing.

## To set the Colour TV System

1 Select **TV System**.



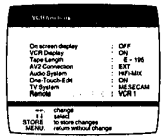
2 Select **PAL** or **MESECAM**.



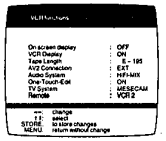
- Set according to the colour TV system used during playback or external recording.

## Remote Control Mode

1 Select **Remote**.



2 Select **VCR1** or **VCR2**.



VCR1: Set to this position on both the VCR and remote controller for normal use with one VCR.
VCR2: Set to this position when using two Panasonic VCRs.
This allows to operate VCR1 or VCR2 with remote controller.

- When changing the remote control mode, please be sure to press **STORE**. And then press **VCR 1/2** to change the remote control mode of the remote controller. If this is not done, it will not be possible to operate the VCR using the remote controller.

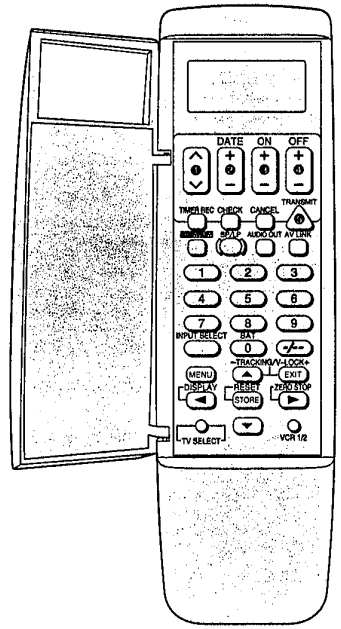
## After All Settings are selected

Press **STORE**, and then press **EXIT** to make On Screen Display disappear.

STORE → EXIT

# Language-Selection

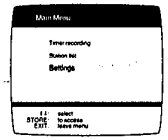
To change the language setting for On Screen Display, follow the steps bellow.




1 Press **MENU**, and then select **Settings**.

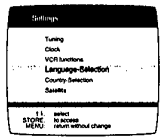
On Screen Display

MENU → ▲ ▼ → STORE



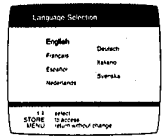
2 Select **Language-Selection**.

▲ ▼ → STORE



3 Select the desired language.

▲ ▼



4 Press **STORE**, and then press **EXIT**.

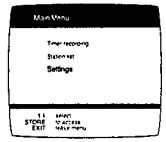
STORE → EXIT

# Country-Selection

To change the country setting, follow the steps bellow.

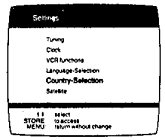
1 Press **MENU**, and then select **Settings**.

MENU → ▲ ▼ → STORE



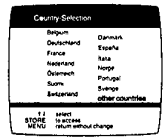
2 Select **Country-Selection**.

▲ ▼ → STORE

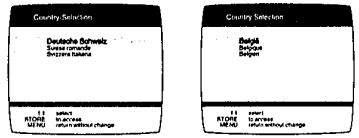


3 Select the desired country.

▲ ▼



- When Switzerland or Belgium has been selected, operation moves to the screen which follows. Select the desired item.

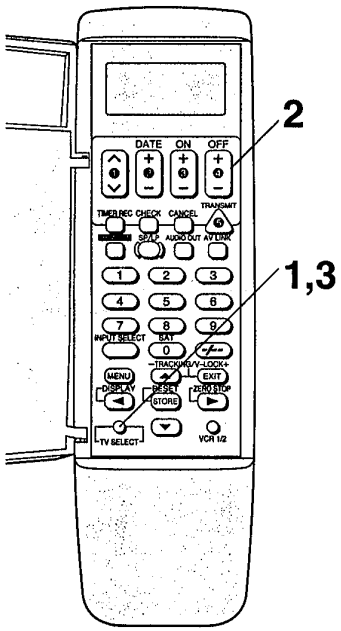


4 Press **STORE**, and then press **EXIT**.

STORE → EXIT

# Setting the Remote Controller for Operation of your TV

You can operate some TV manufacturers (see next page) using the supplied Remote Controller after this setting up.




**Preparation**
Turn on the TV.

| Operations | Display Symbols |
|---|---|

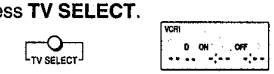
**1** Keep **TV SELECT** pressed for more than 2 seconds.

**2** Press **OFF** several times.

- When the number matches the manufacturer of your TV, the TV's power is turned off.

**Read through the information on the following page as well.**

**3** Press **TV SELECT**.




**How to change the number**
Each time the "+" side of **OFF** is pressed, the number is counted up by one as follows:

→1→2→3...28→

When the "−" side is pressed, the number is counted down by one in the reverse order to that indicated above.

**Note:**
Some TV models cannot be operated using this remote controller.

| Number | Manufacturer |
|---|---|
| 1–4 | Panasonic |
| 5 | GRUNDIG, Blaupunkt, SIEMENS |
| 6 | PHILIPS, LOEWE, SAMSUNG, RADIOLA, DUAL, PYE, BUSH, GOODMANS, ELEMIS, CURTIS, SBR |
| 7 | SONY |
| 8 | METZ |
| 9* | FERGUSON, THOMSON, TELEFUNKEN, GOODMANS, SABA |
| 10* | FERGUSON, THOMSON, TELEFUNKEN, GOODMANS |
| 11* | FERGUSON, THOMSON, TELEFUNKEN, GOODMANS, SABA |
| 12* | FERGUSON, TELEFUNKEN, GOODMANS, SABA |
| 13* | TELEFUNKEN |
| 14* | FERGUSON, THOMSON, TELEFUNKEN, GOODMANS, SABA |
| 15* | FERGUSON, THOMSON, TELEFUNKEN, GOODMANS, SABA, NORDMENDE, BRANDT |
| 16* | TELEFUNKEN |
| 17, 18 | HITACHI |
| 19 | SIEMENS |
| 20 | SAMSUNG |
| 21 | ITT, NOKIA, SELECO |
| 22 | NOKIA, SALORA |
| 23 | MIVAR |
| 24 | TOSHIBA |
| 25 | SANYO |
| 26 | SHARP |
| 27 | JVC |
| 28 | MITSUBISHI |

**When a TV manufacturer has the plural number**
**For example, When the number is 1, 2, 3 or 4 (Panasonic):**
When the TV's power is turned off in step **2** on previous page, turn it back on and adjust the TV's volume using this remote controller. The volume can be adjusted if the number matches the TV manufacturer. If it is not possible to adjust the TV's volume, try setting the number (1 to 4) to match the TV manufacturer again until the volume can be adjusted.

***When the number is 9–16**
How to change the programme position of TV:

1 Press ∧ **(TV)** to make **POS** appear on screen display.

2 Press **VOLUME** + or −.
- To adjust the TV's volume using the remote controller after that, press ∧ **(TV)** to make **POS** on screen display disappear and then adjust the volume. For some models, **POS** disappears automatically after several seconds. In these cases, this operation is not necessary.

**Note:**
FERGUSON, THOMSON, TELEFUNKEN, GOODMANS, SIEMENS, SAMSUNG, NOKIA and SABA have plural numbers. Although some models may operate with any of these numbers, other models may operate with only one number. Check each number in turn, and set the optimal number.

# SECTION 2
# ADJUSTMENT PROCEDURES

## 2-1. DISASSEMBLY METHOD

2-1-1. DISASSEMBLY FLOW CHART

This flow chart indicates disassembly steps of the cabinet parts and the circuit boards in order to find the necessary items for servicing.
When reassembling, perform the steps in the reverse order.

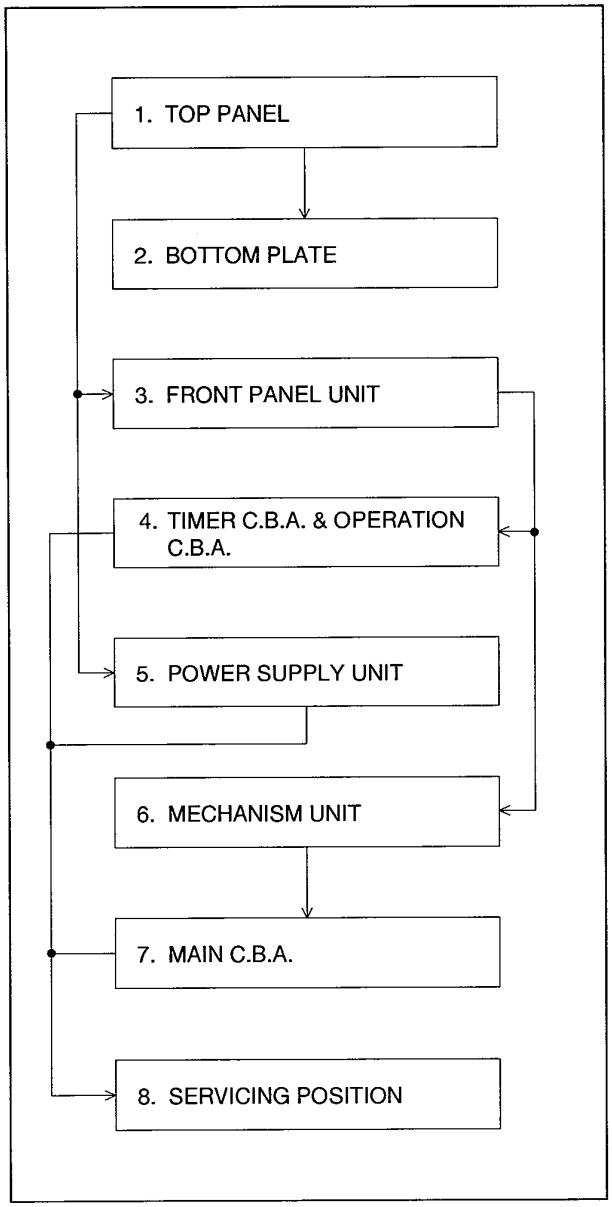



Fig. D1

2-1-2. DETAIL OF DISASSEMBLY METHOD

1. REMOVAL OF THE TOP PANEL

Remove..... 4 Screws (A)

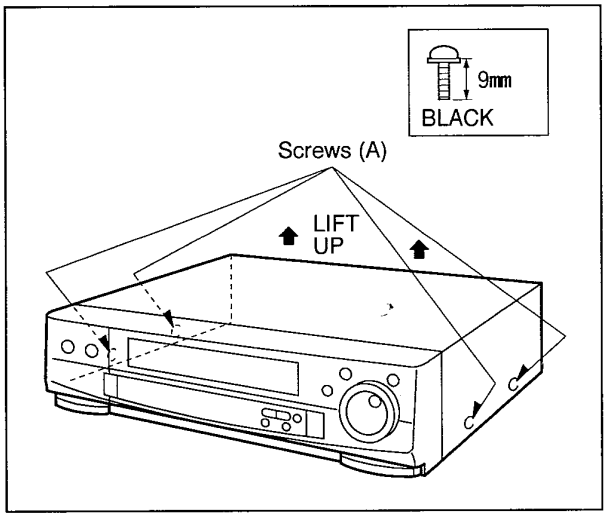



Fig. D2

2. REMOVAL OF THE BOTTOM PLATE

Unlock ..... 6 tabs (B)

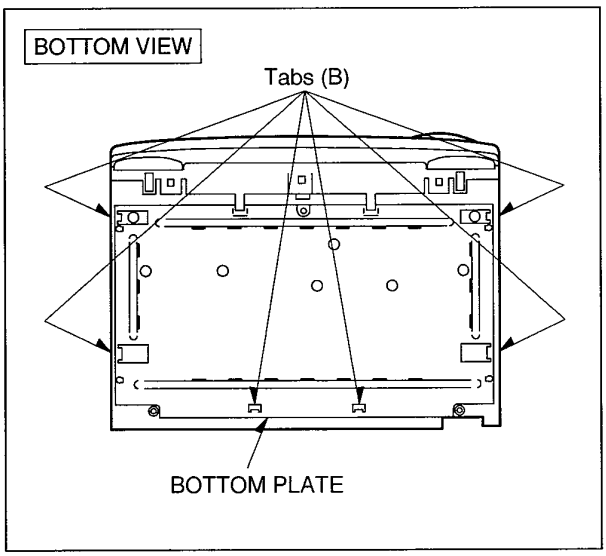



Fig. D3

3. REMOVAL OF THE FRONT PANEL UNIT

Pull out ..... JOG & SHUTTLE Knob
Unlock ..... 11 Tabs (C)

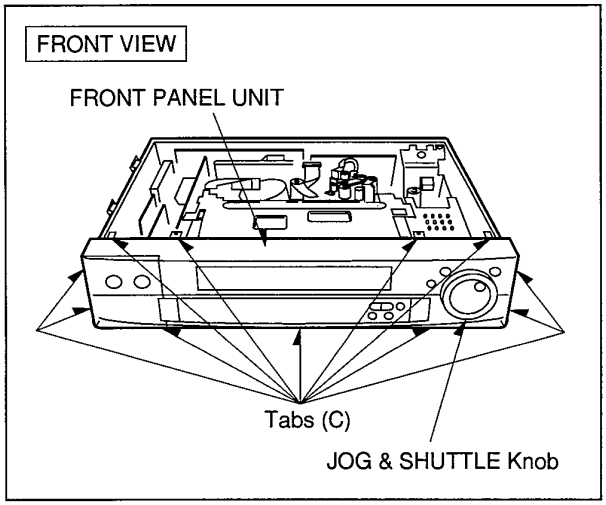



Fig. D4

4. REMOVAL OF THE TIMER C.B.A. & OPERATION C.B.A.

REMOVAL OF THE TIMER C.B.A.
Disconnect..... 2 Bridge connectors (D)
Unlock..... 5 Tabs (E)

REMOVAL OF THE VR C.B.A.
Disconnect..... 2 Bridge connectors (D)
Unlock..... 2 Tabs (F)

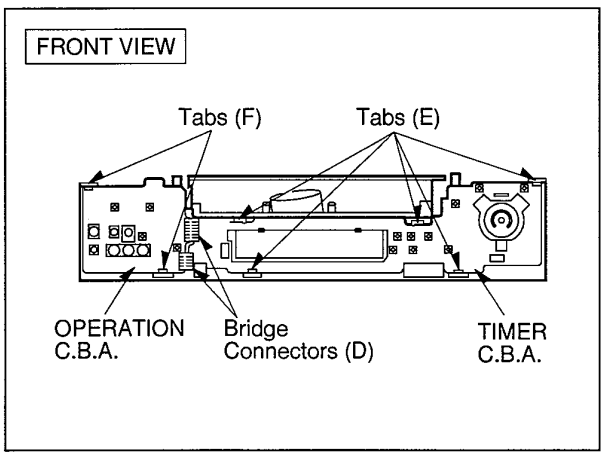



Fig. D5

5. REMOVAL OF THE POWER SUPPLY UNIT

Disconnect.....Bridge connector (G)
Unlock..... 5 Tabs (H)
Unlock..... 2 Tabs (I)

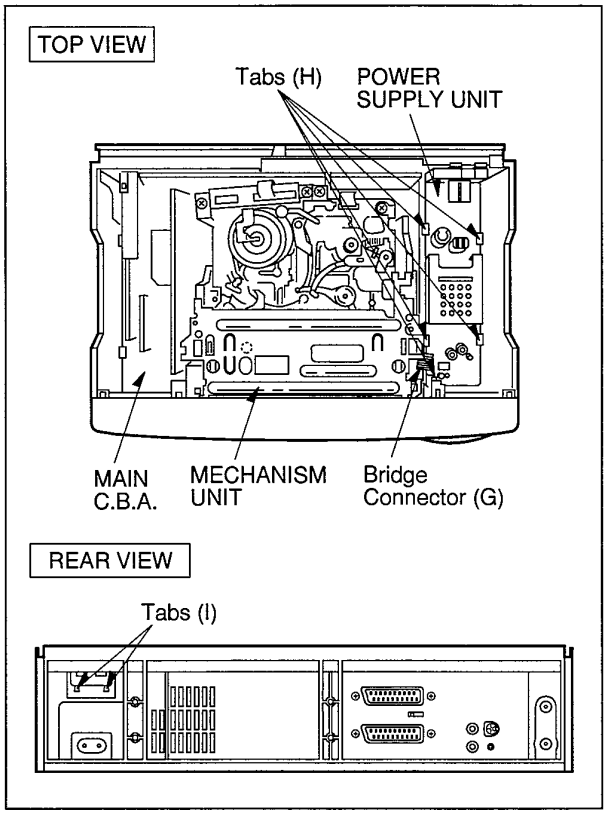



Fig. D6

CAUTIONS:
Please pay an attention to disconnect the connector (PS3006-P1102) which connected between Main C.B.A. and Power supply unit as shown below.

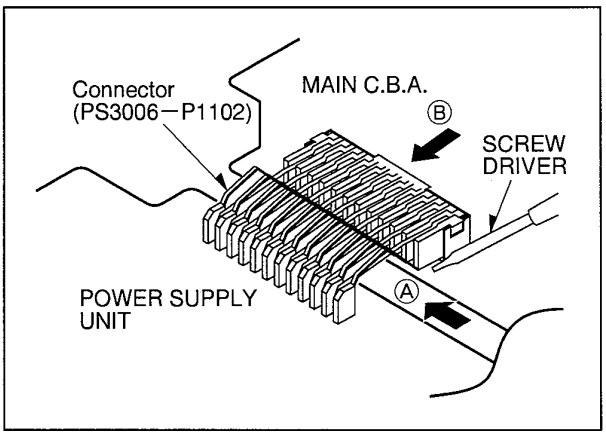



Fig. D7

As above drawing, disconnect the connector by SCREW DRIVER from the direction Ⓐ.
Do not disconnect from direction Ⓑ because it is possibility to damage the parts located by the connector.

6. REMOVAL OF THE MECHANISM UNIT

Remove ..... 3 Screws (J)
Remove ..... Screw (K)

7. REMOVAL OF THE MAIN C.B.A.

Disconnect ... Bridge connector (G) [Fig. D6]
Remove ..... 2 Screws (L)
Unlock..... 5 Tabs (M)

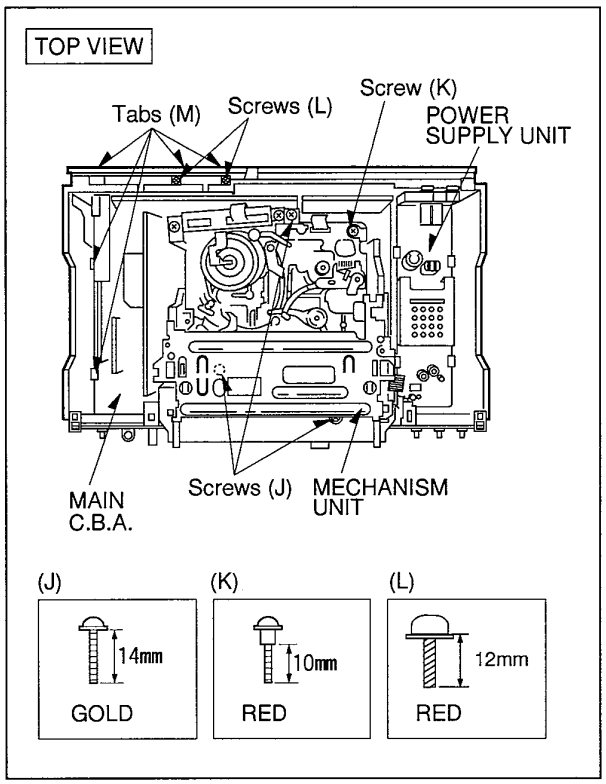



Fig. D8

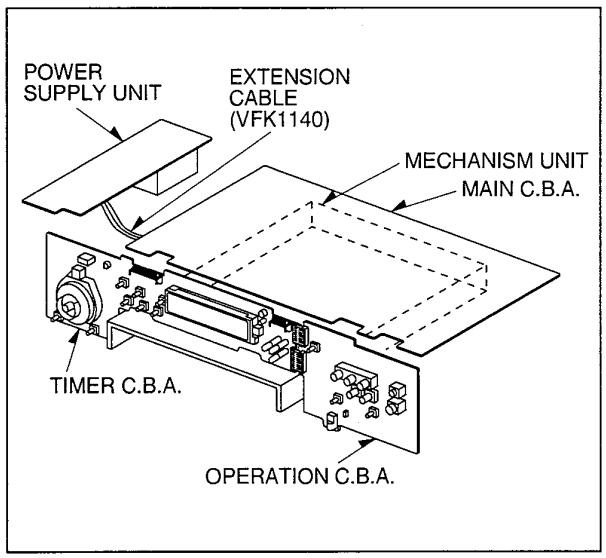



Fig. D9

## 2-2. MECHANICAL ADJUSTMENT PROCEDURES

The mechanical chassis of this model is the K Mechanical Chassis.
Therefore refer to the Service Manual for K Mechanical Chassis. (Order No. VRD9307M131)

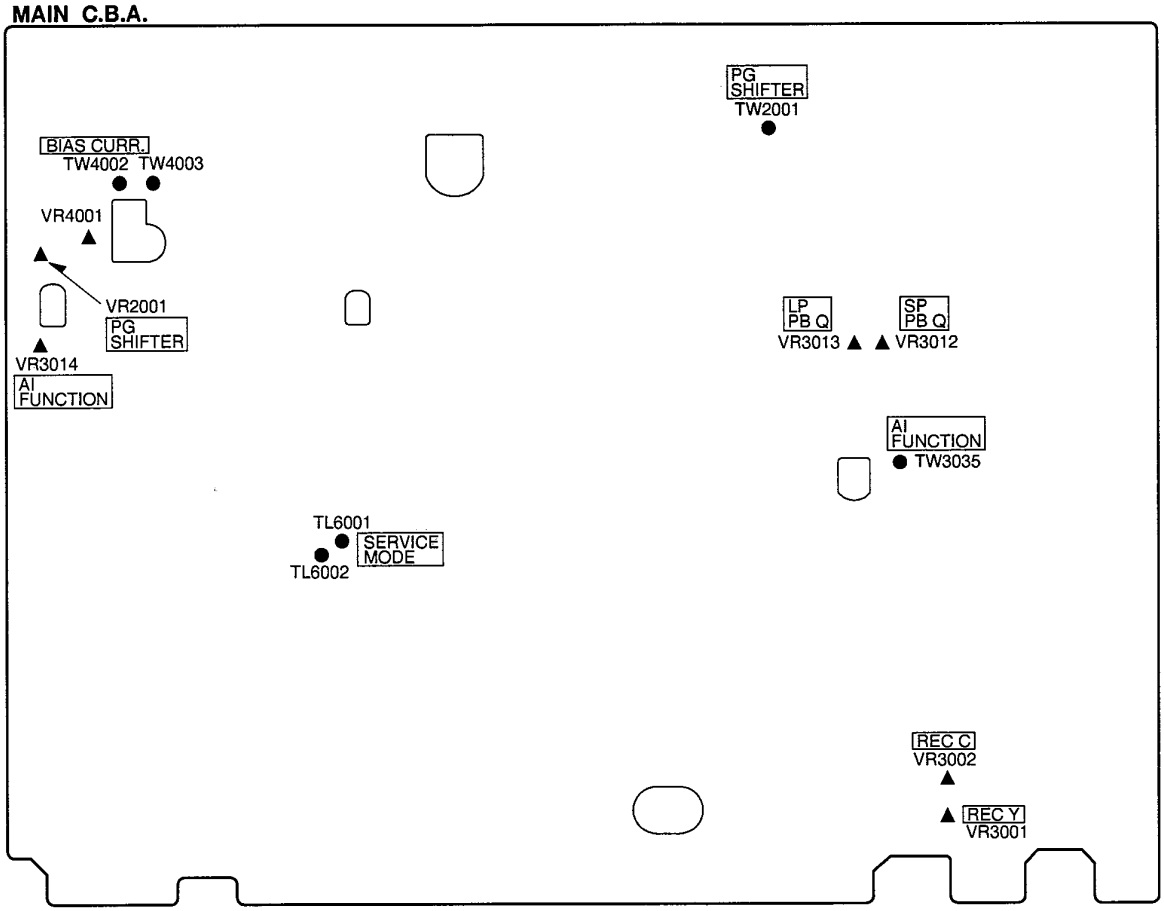
CAUTIONS:

To make a Adjustment Mode for Tape Interchangeability, there are two ways to turn off the Auto Tracking.

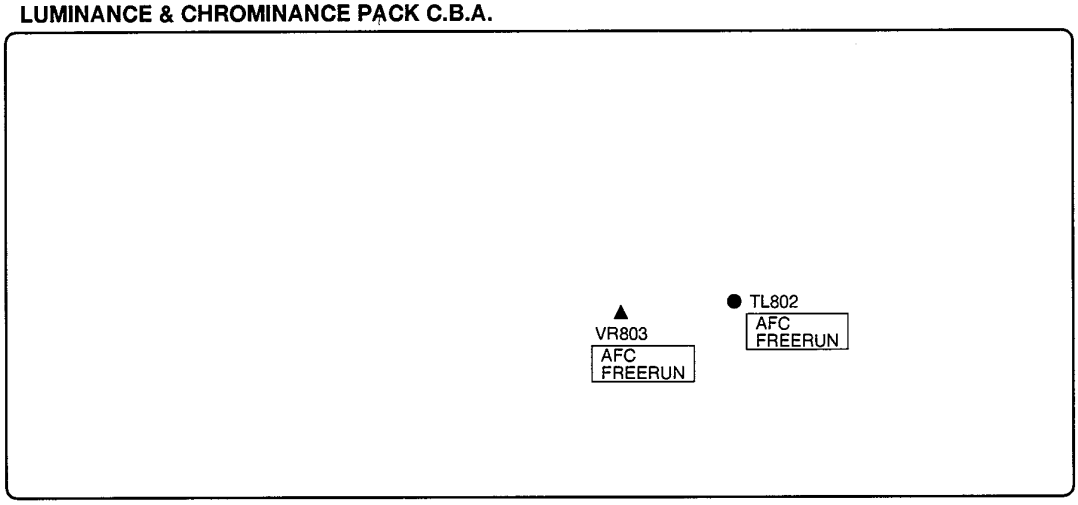
(1) Connect a jumper wire between TL6001 and TL6002. After finishing the adjustment, disconnect the jumper wire.
(2) Turn the Shuttle Ring to FF then press the EJECT button to set the Service Mode 2.

## LOCATION OF TEST POINTS & CONTROLS

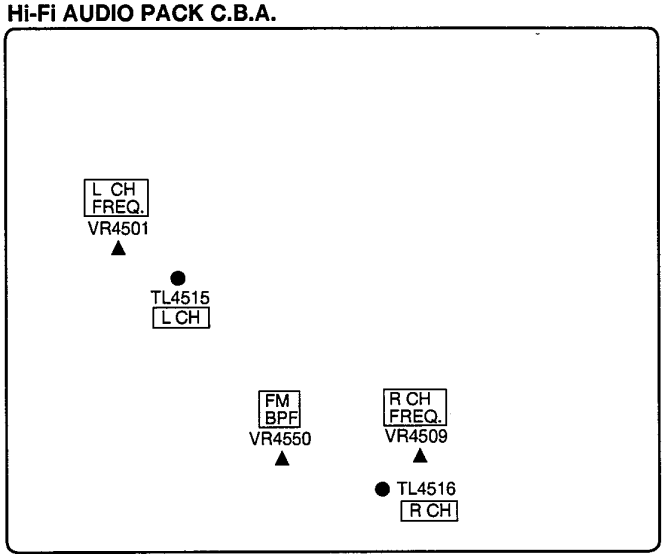
**MAIN C.B.A.**



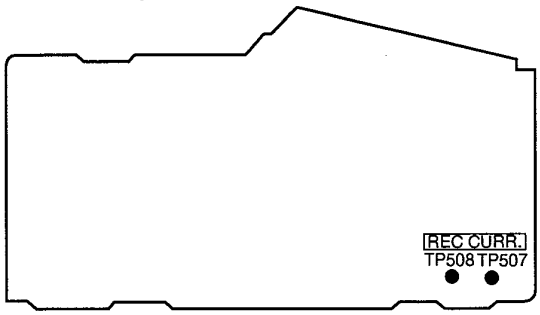

**LUMINANCE & CHROMINANCE PACK C.B.A.**



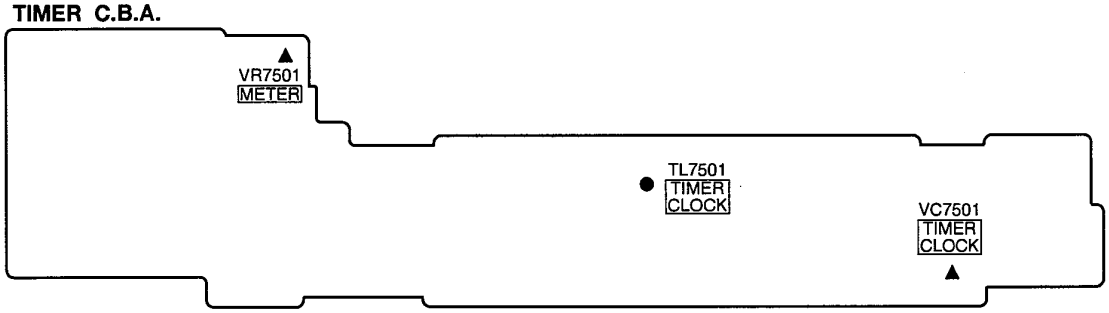
**Hi-Fi AUDIO PACK C.B.A.**



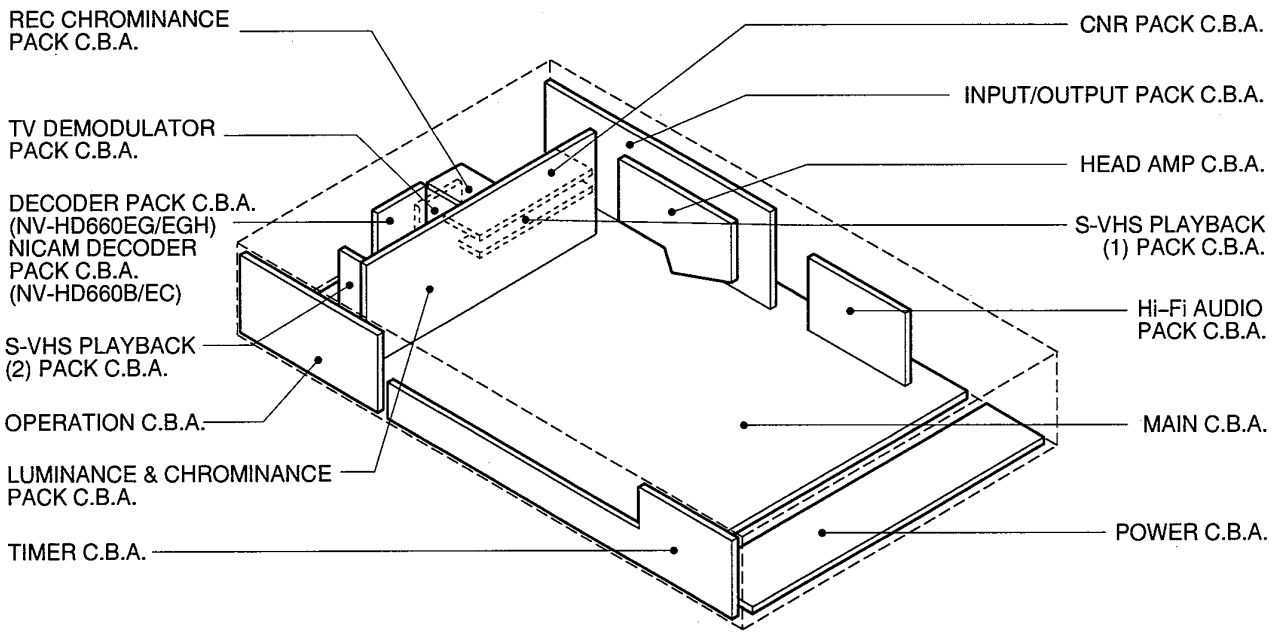

**HEAD AMP C.B.A.**




**TIMER C.B.A.**




## CIRCUIT BOARD LAYOUT



## 2-3. ELECTRICAL ADJUSTMENT PROCEDURES

2-3-1. TEST EQUIPMENT

The following equipments are required for Electrical Adjustments.

| | | |
|---|---|---|
| 1. Dual-Trace Oscilloscope<br>• Voltage Range: 0.005~5 V/div<br>• Frequency Range: DC~35 MHz<br>• Probes: 10:1/1:1 | 3. Universal Counter | 8. Monitor TV |
| | 4. Digital Volt Meter (D.V.M.) | 9. DC Power Supply |
| | 5. Video Sweep generator | 10. VHS Blank tape |
| 2. Frequency Counter<br>• Frequency Range: 0~10 MHz<br>• Probes: 1:1 | 6. Sinewave Generator | 11. VHS Alignment Tape<br>• Part No.: VFJ8125H3F (PAL)<br>• Part No.: VFM8080HQFP (NTSC) |
| | 7. Video Pattern Generator | |

2-3-2. VCR SETTING

When no indication in the procedure, set each selector as follows.

| |
|---|
| 1. CVC SW: ON |
| 2. TAPE SPEED: SP |
| 3. CHANNEL: AV1/AV2/AV3<br>(Set to signal input terminal number) |
| 4. TEST SIGNAL SW (REAR): OFF |

2-3-3. ADJUSTMENTS

| ITEM | TP | ADJ. | MODE | INPUT | TAPE | M. EQ. | SPEC. | REMARKS |
|---|---|---|---|---|---|---|---|---|
| PG SHIFTER ADJUSTMENT | TW2001/ VIDEO OUT | VR2001 | PLAYBACK | — | ALIGNMENT TAPE | OSCILLO SCOPE | 7.0+−0.5 (H)<br>(See Fig. E1) | |
| RECORDING CURRENT ADJUSTMENT | TP507 (HOT)<br>TP508 (CLD) | VR3001 (Y)<br>VR3002 (C) | RECORDING | PAL COLOUR BAR | BLANK TAPE | OSCILLO SCOPE | Y: 130+−5 (mVp-p)<br>C: 36+−2 (mVp-p)<br>(See Fig. E2, E3) | 1. Adjust the Luminance level until the peak level of V-SYNC is 130+−5mVp-p.<br>2. When adjusting the Chrominance level, supply +5V DC to PK3001-7 to eliminate Luminance component. |
| VIDEO FREQUENCY RESPONSE ADJUSTMENT | VIDEO OUT | VR3012 (SP)<br>VR3013 (LP) | SP/LP PLAYBACK (SELF-REC) | VIDEO SWEEP | BLANK TAPE | OSCILLO SCOPE/ VIDEO SWEEP GENE. | SP: 0+−1 (dB) (90~110%)<br>LP: 0+−1 (dB) (90~110%)<br>(See Fig. E5) | 1. Set the Video Sweep Signal.<br>(See Fig. E4)<br>2. Set the CVC SW to OFF position. |
| AFC FREERUN ADJUSTMENT | IC303-9 (TL802) | VR803 | STOP | — | — | FREQ. COUNTER | 15735+−100 (Hz) | 1. Supply +5V DC to IC303-27 (TL801).<br>2. Turn VR803 to maximum frequency, then adjust VR803 until the spec. |
| AI FUNCTION ADJUSTMENT | TW3035 | VR3014 | PLAYBACK (SELF-REC) | PAL COLOUR BAR | BLANK TAPE | D.V.M. | 1.6+−0.3 (V) | |
| BIAS CURRENT ADJUSTMENT | TW4002 (HOT)<br>TW4003 (CLD) | VR4001 | RECORDING | — | BLANK TAPE | D.V.M. | 2.5+−0.1 (mVrms) | 1. Connect the Audio Input and GND. |

| ITEM | TP | ADJ. | MODE | INPUT | TAPE | M. EQ. | SPEC. | REMARKS |
|---|---|---|---|---|---|---|---|---|
| CARRIER FREQUENCY ADJUSTMENT | TL4515 (L)<br>TL4516 (R) | VR4501<br>VR4509 | RECORDING | — | BLANK TAPE | FREQ. COUNTER | L: 1400+−0.003 (KHz)<br>R: 1800+−0.003 (KHz) | |
| FM BPF ADJUSTMENT | TL4515 (L)<br>TL4516 (R) | VR4550 | PLAYBACK | SINEWAVE 1.608MHz 400mVp-p (PK4002-5) | ALIGNMENT TAPE | OSCILLO SCOPE/ SINEWAVE GENE. | TL4515 (L)=TL4516 (R) | 1. Disconnect P501.<br>2. The GND lead of oscilloscope must be connected to GND on HIFI Audio C.B.A. to reduce the nise.<br>3. Supply the sinewave signal (1.608MHz/400mVp-p) to PK4002-5.<br>4. After this adjustment, connect P501. |
| TIMER REFERENCE CLOCK ADJUSTMENT | TL7501 | VC7501 | STOP | — | — | UNIV. COUNTER | 7812.5+−0.015 (usec) | |
| LEVEL METER SENSITIVITY ADJUSTMENT | LEVEL METER ON THE FIP | VR7501 | STOP | SINEWAVE 1 kHz/ −6 dB | — | — | 0 dB INDICATOR ON THE AUDIO LEVEL METER JUST LIGHTS UP | 1. Set the Audio Rec VR to Centre Fix position.<br>2. Select the STEREO Mode. (Both Left and Right indicators on the FIP are lit.)<br>3. Before recording the sinewave, set the sinewave generator until the audio outputs (L) and (R) are 400 mVrms. |

2-3-4. FIGURES

Fig. E1

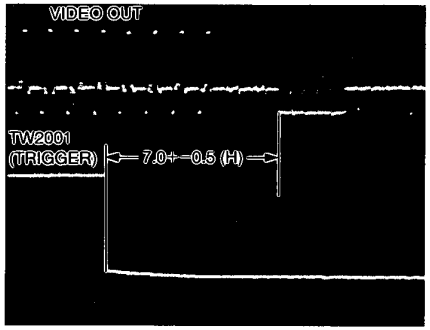



Fig. E2

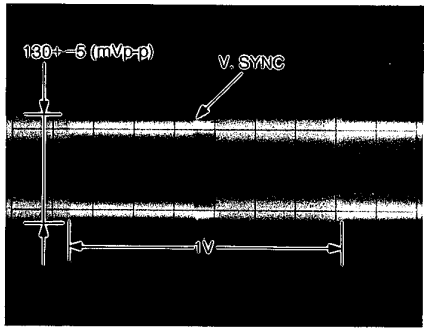



Fig. E3

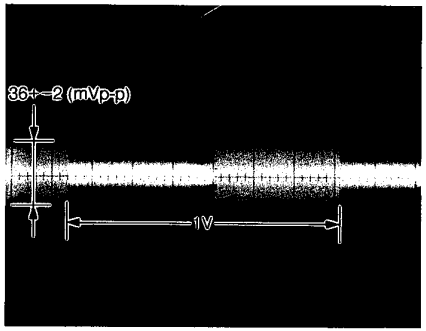
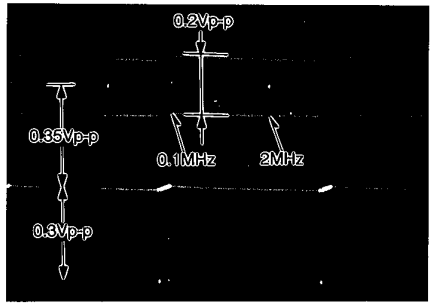
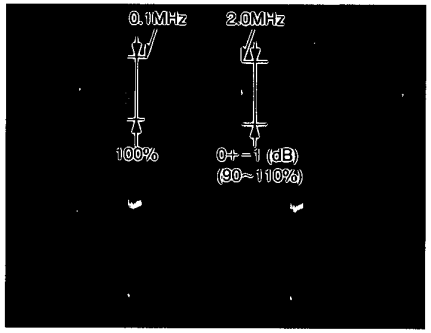



Fig. E4




CONDITION: BURST SIGNAL OFF
75 ohm TERMINATED

Fig. E5



# SECTION 3
# BLOCK DIAGRAMS & SCHEMATIC DIAGRAMS

## 3-1. ABBREVIATIONS

| | | | |
|---|---|---|---|
| 443NT [L] | 4.43 NTSC Ⓛ | BIL | BILINGUAL |
| A. COMP | AUDIO COMPONENT SIGNAL | BIL [L] | BILINGUAL Ⓛ |
| A. COMPO | AUDIO COMPONENT SIGNAL | BIL. [H] | BILINGUAL Ⓗ |
| A. D.P [L] | AUDIO DUBBING PAUSE Ⓛ | BIL/M1 [L] | BILINGUAL Ⓛ |
| A. D/L [L] | AUDIO DUBBING PAUSE Ⓛ | BS CLOCK | BS CLOCK |
| A. DEF [S] | AUDIO DEFEAT | BS DATA | BS DATA |
| A. DEF [S] [L] | AUDIO DEFEAT | BS LCH IN | BS L CHANNEL INPUT |
| A. DUB P [L] | AUDIO DUBBING PAUSE Ⓛ | BS MIX [H] | BS MIX Ⓗ |
| A. DUB [H] | AUDIO DUBBING Ⓗ | BS MON [H] | BS MONITOR Ⓗ |
| A. ERASE | AUDIO ERASE | BS MONI [H] | BS MONITOR Ⓗ |
| A. H. SW | AUDIO HEAD SWITCHING PULSE | BS RCH IN | BS R CHANNEL INPUT |
| A. HEAD [R] | AUDIO HEAD (REC) | BS VIDEO | BS VIDEO SIGNAL |
| A. HEAD [W] | AUDIO HEAD (PLAY) | BS VIDEO/BS1 | BS VIDEO SIGNAL |
| A. IN [L] | AUDIO INPUT (L) | BS [H] | BS Ⓗ |
| A. IN [R] | AUDIO INPUT (R) | BS. LEVEL | BS LEVEL |
| A. MUT [H] | AUDIO MUTE Ⓗ | BS. M [H] | BS MONITOR Ⓗ |
| A. MUTE [H] | AUDIO MUTE Ⓗ | BS/VTR [H] | BS/VTR Ⓗ |
| A. OUT [L] | AUDIO OUTPUT (L) | BUS CLK | BUS CLOCK |
| A. OUT [R] | AUDIO OUTPUT (R) | BUS LSN | BUS LISTEN |
| A. RF OUT | AUDIO RF SIGNAL OUTPUT | BUS TLK | BUS TALK |
| A/VS/S. DATA | AV SW/SERIAL DATA | BUZZER | BUZZER |
| AC ONLINE | AC ONLINE | CAP EC | CAPSTAN TORQUE CONTROL |
| AC. O/EE. H | AC ONLINE/EE Ⓗ | CAP M GND | CAPSTAN MOTOR GND |
| AFC S C | AFC S CURVE | CAP. ET | CAPSTAN TORQUE CONTROL |
| AFC [S] | AFC S CURVE | CAP. FG1 | CAPSTAN FG1 PULSE |
| AFC. DEF | AFC DEFEAT | CAP. FG2 | CAPSTAN FG2 PULSE |
| ARFC OUT | AUDIO RF SIGNAL OUTPUT | CAS. SW | CASSETTE SW |
| ART. V | ARTIFICIAL VERTICAL SYNC SIGNAL | CCN | PLAYBACK CONTROL SIGNAL (−) |
| ART. V. MM | ARTIFICIAL VERTICAL SYNC SIGNAL MONO MULTI | CCP | PLAYBACK CONTROL SIGNAL (+) |
| | | CHM | CONTROL SIGNAL (+) |
| ART. V/H/N | ARTIFICIAL VERTICAL SYNC SIGNAL Ⓗ/NORMAL | CHP | CONTROL SIGNAL (−) |
| | | CINEM [L] | CINEMA Ⓛ |
| AT. V/H/N | ARTIFICIAL VERTICAL SYNC SIGNAL | CINEMA [L] | CINEMA Ⓛ |
| ATSW/TEST/NOR/SE | TEST/NORMAL/SERVICE | CINEMA/MIX | CINEMA/MIX |
| AUDIO IN [L] | AUDIO INPUT (L) | CKL | RATCH LOCK |
| AUDIO IN [R] | AUDIO INPUT (R) | CKS | SHIFT LOCK |
| AUDIO OUT [L] | AUDIO OUTPUT (L) | CL | CLOCK |
| AUDIO OUT [R] | AUDIO OUTPUT (R) | CLK | CLOCK |
| AUDIO SELECT [H] | AUDIO SELECT Ⓗ | CLK (C.G) | CLOCK |
| AUDIO. L | AUDIO (L) | CLOCK. IN | CLOCK INPUT |
| AUDIO. R | AUDIO (R) | CLP | CLAMP |
| AV CNT | AV CONTROL | COL/B/W/NOR | COLOUR/BLACK & WHITE/NORMAL |
| AV CTL | AV CONTROL | COLOR [H] | COLOUR Ⓗ |
| AV CTL/S. CLK | AV CONTROL/SERIAL CLOCK | CONV | CONVERTOR |
| AV. C.M. | AV CONTROL MODE | CS | CHIP SELECT |
| AVCNT/METER. R | AV CONTROL/LEVEL METER (R) | CTL GND | CONTROL GND |
| AVSW/METER. L | AV SW/LEVEL METER (L) | CTL HEAD [+] | CONTROL HEAD (+) |
| B MODE. H | B MODE Ⓗ | CTL HEAD [−] | CONTROL HEAD (−) |
| B.G.P | BURST GATE PULSE | CTL [+] | CONTROL HEAD (+) |
| BACKUP 5V | BACK UP 5V | CTL [−] | CONTROL HEAD (−) |
| BAND. U.E. | BAND U | CUE BIAS | CUE BIAS |
| BANDVL. D | BAND VL | CURRENT LIM | CURRENT LIMMITER |
| BI/MI [L] | BILINGUAL/MIX Ⓛ | CYL ET | CYLINDER TORQUE CONTROL |

| | | | |
|---|---|---|---|
| CYL GND | CYLINDER GND | FULL. E. 12V | FULL ERASE 12V |
| D.F.M. REC [H] | DELAIED FM RECORDING Ⓗ | GND [A] | GND (ANALOG) |
| D. FM REC [L] | DELAIED FM RECORDING Ⓛ | GND [TU] | GND (TUNER) |
| D. GND | DIGITAL GND | GND/N. SW. 12V | GND/NON SW 12V |
| D. REC [H] | DELAYED RECORDING Ⓗ | H. SYNC | HORIZONTAL SYNC |
| D4/S. LED | D4/STILL LED | H. AMP. SW | HEAD AMP SW PULSE |
| D4/STILLED | D4/STILL LED | H. P <R> | HEAD PHONE (R) |
| DAC [CLK] | TUNER DAC (CLOCK) | H. P <L> | HEAD PHONE (L) |
| DAC/FSCS | TUNER DAC/FS CHIP SELECT | H. P GND | HEAD PHONE GND |
| DAREC [H] | DELAYED AUDIO RECORDING Ⓗ | H. P OUT [L] | HEAD PHONE OUTPUT (L) |
| DATA | DATA | H. P OUT [R] | HEAD PHONE OUTPUT (R) |
| DECODER [L] | DECODER (L) | H. SW | HEAD SW PULSE |
| DECODER [R] | DECODER (R) | HEAD PHONE [L] | HEAD PHONE (L) |
| DEW | DEW | HEAD PHONE [R] | HEAD PHONE (R) |
| DEW SNS | DEW SENSOR | HEAD SW | HEAD SW |
| DFMRE [H] | DELAYED FM AUDIO RECORDING Ⓗ | HEATER [+] | HEATER (+) |
| E. REC 5V | EXCEPT RECORDING 5V | HEATER [−] | HEATER (−) |
| EC | ERROR TORQUE CONTROL | HSS | HORIZONTAL SYNC SIGNAL |
| ECR | ERROR TORQUE CONTROL | HTR [+] | HEATER (+) |
| | REFERENCE VOLTAGE | HTR [−] | HEATER (−) |
| EDT TRIG [L] | EDIT TRIGGER Ⓛ | I RFE | REFERENCE CURRENT |
| EDIT [H] | EDIT Ⓗ | ICL | CONTROL AGC CIRCUIT |
| EE [H] | EE Ⓗ | IF | INTERMEDIATE FREQUENCY |
| EE [H]/INS [M] | EE Ⓗ/INSERT Ⓜ | IN SELA1 | INPUT SELECT A1 POSITION |
| EE. VV. TR | EE/VV/TRICK PLAY | IN SELA2 | INPUT SELECT A2 POSITION |
| EJECT. PO | EJECT POSITION | IN SELA3 | INPUT SELECT A3 POSITION |
| EJECT/VDET | EJECT/REVERSE SLOW LOCK | INS L/R [L] | INSERT Lch/Rch Ⓛ |
| ENV. SEL | ENVELOPE SELECT | INS. [H] | INSERT Ⓗ |
| ENVE. OUT | ENVELOPE OUTPUT | INSEL A1 | INPUT SELECT A1 POSITION |
| ENVE. SEL | ENVELOPE SELECT | INSEL A2 | INPUT SELECT A2 POSITION |
| ENV SELECT | ENVELOPE SELECT | INSERT | INSERT |
| EP [H] | LP Ⓗ | INSERT [H] | INSERT Ⓗ |
| EP/LP [H] | LP Ⓗ | IO CS | INPUT/OUTPUT CHIP SELECT |
| EP/LP/SP | LP/SP | JOG1 | JOG1 |
| EP/SS [H] | LP/SLOW/STILL/STOP Ⓗ | JOG S3 LED/FOWRD | JOG LED/FORWARD LED |
| EPROMCS | EPROM CHIP SELECT | JOG/F. LED | JOG LED/FORWARD LED |
| EX. REC 5V | EXCEPT RECORDING 5V | JSB [H] | JSB Ⓗ |
| FF/REW [L] | FIRST FORWARD/REWIND Ⓛ | JST. CLCK | JUST CLOCK |
| FG1 IN | FG1 PULSE INPUT | JST. CLK | JUST CLOCK |
| FG2 IN | FG2 PULSE INPUT | JST. CLOCK | JUST CLOCK |
| FILTER ADJUSTMENT | FILTER ADJUSTMENT | L. OUT | Lch OUTPUT |
| FLY ERASE [H] | FLYING ERASE HEAD ON Ⓗ | L. CH [H] | Lch Ⓗ |
| FLY ON [H] | FLYING ERASE HEAD ON Ⓗ | L. CH [L] | Lch Ⓛ |
| FLY. E [H] | FLYING ERASE HEAD ON Ⓗ | LED (MAIN) | LED (MAIN) |
| FM MUT [H] | FM AUDIO MUTE Ⓗ | LED (STEREO) | LED (STEREO) |
| FM MUTE [H] | FM AUDIO MUTE Ⓗ | LED (SUB) | LED (SUB) |
| FM OUT [L] | FM OUTPUT (L) | LED CKL | LED SERIAL CLOCK |
| FM OUT [R] | FM OUTPUT (R) | LED CKS | LED SERIAL CLOCK |
| FM PACK OUT [L] | FM PACK OUTPUT (L) | LED DATA | LED SERIAL DATA |
| FM PACK OUT [R] | FM PACK OUTPUT (R) | LINE IN 1 [L] | LINE INPUT 1 (L) |
| FM/BS SEL [L] | FM/BS SELECT (L) | LINE IN 1 [R] | LINE INPUT 1 (R) |
| FM/BS SEL [R] | FM/BS SELECT (R) | LINE IN 2 [L] | LINE INPUT 2 (L) |
| FS. CLK | FS CLOCK | LINE IN 2 [R] | LINE INPUT 2 (R) |
| FUL. E [H] | FULL ERASE HEAD ON Ⓗ | LINE IN V | LINE INPUT VIDEO |
| FULL. E [H] | FULL ERASE HEAD ON Ⓗ | LINE IN [L] | LINE INPUT (L) |

| | | | |
|---|---|---|---|
| LINE IN [R] | LINE INPUT (R) | P-OFF [H] | POWER OFF Ⓗ |
| LINE OUT [L] | LINE OUTPUT (L) | P-OFF [L] | POWER OFF Ⓛ |
| LINE OUT [R] | LINE OUTPUT (R) | P. FAIL | POWER FAILURE DETECT |
| LP [H] | LP Ⓗ | P. OFF [H] | POWER OFF Ⓗ |
| LPTRI [L] | LP TRICK PLAY Ⓛ | P. OFF [L] | POWER OFF Ⓛ |
| Lch/A. DUB | Lch/AUDIO DUBBING | PAL [H] | PAL Ⓗ |
| M GND | MOTOR GND | PAL [L]/NTSC [H] | PAL Ⓛ/NTSC Ⓗ |
| M REG | MOTOR REGULATOR | PB ADJ OUT | PLAYBACK ADJUST OUTPUT |
| MAIN OUT | MAIN OUTPUT | PB OUT | PLAYBACK OUTPUT |
| MAIN [L] | MAIN Ⓛ | PB. H | PLAYBACK Ⓗ |
| MAIN/MONO | MAIN/MONAURAL | PFG | PG/FG |
| MAX IN | MAXIMAM INPUT | PHOTSN +B | PHOTO SENSOR +B |
| MES [H] | MESECAM Ⓗ | PICT. CNT | PICTURE CONTROL |
| MESE [H] | MESECAM Ⓗ | PLAY LED/RVS LED | PLAY LED/REVERSE LED |
| MESE [L] | MESECAM Ⓛ | PLAY. PO | PLAY POSITION |
| METER 5V | LEVEL METER 5V | PLAY/R. LED | PLAY LED/REVERSE LED |
| METER [L] | LEVEL METER (L) | PLY/DEW | PLAY/DEW Ⓗ |
| METER [R] | LEVEL METER (R) | POWER OFF [L] | POWER OFF Ⓛ |
| METER. L/AVS | LEVEL METER (L) | PREROLL [H] | PREROLL Ⓗ |
| METER. R/AVC | LEVEL METER (R) | PWRFAIL | POWER FAILURE DETECT |
| MI/BI [L] | MIX Ⓗ/BILIGUAL | R. CH [H] | Rch Ⓗ |
| MIC GND | MIC GND | R. CH [L] | Rch Ⓛ |
| MIC IN | MIC INPUT | R. ST | RESET |
| MIC IN [L] | MIC INPUT (L) | R/S/F | REVERSE Ⓗ/STOP Ⓜ/FORWARD Ⓛ |
| MIC IN [R] | MIC INPUT (R) | RCH [H] | Rch Ⓗ |
| MIC [H] | MIC Ⓗ | REC 12V | RECORDING 12V |
| MIX [H] | MIX Ⓗ | REC CHROMA | RECORDING CHROMINANCE SIGNAL |
| MIX [H]/CINEMA [L] | MIX Ⓗ/CINEMA SOUND Ⓛ | REC H | RECORDING Ⓗ |
| MIX/CINE | MIX Ⓗ/CINEMA SOUND Ⓛ | REC IN | RECORDING INPUT |
| MIX/CINEMA [L] | MIX Ⓗ/CINEMA SOUND Ⓛ | REC OUT [L] | RECORDING OUTPUT Ⓛ |
| MN. H/M. L | MONAURAL Ⓗ/MAIN Ⓛ | REC START | RECORDING START |
| MN. H/MAI. L | MONAURAL Ⓗ/MAIN Ⓛ | REC VR [C] | RECORDING VOLUME (COMMON) |
| MN2/MES. L | MONAURAL 2/MESECAM Ⓛ | REC VR [L] | RECORDING VOLUME (L) |
| MODE SEL | AUDIO MODE SELECT | REC VR [R] | RECORDING VOLUME (R) |
| MODE SW | AUDIO MODE SW | REC Y | RECORDING LUMINANCE SIGNAL |
| MODE. S. IN | AUDIO MODE SELECT INPUT | REC [H] | RECORDING Ⓗ |
| MODE. S. OUT | AUDIO MODE SELECT OUTPUT | REC. C | RECORDING CHROMINANCE SIGNAL |
| MONO [H] | MONAURAL Ⓗ | REC. Y | RECORDING LUMINANCE SIGNAL |
| MONO [H]/MAIN [L] | MONAURAL Ⓗ/MAIN Ⓛ | REC/EE CTL | RECORDING/EE CONTROL |
| MONO2 [L] | MONAURAL 2 | REEL-T | REEL PULSE (TAKE-UP) |
| MONO2/MESE [FM(L)] | MONAURAL 2/MESECAM (FM Ⓛ) | REEL-S | REEL PULSE (SUPPLY) |
| MOTOR GND | MOTOR GND | REGULATOR FILTER | REGULATOR FILTER |
| MUTE | MUTE | RESET | RESET |
| N. A. REC [L] | NORMAL AUDIO RECORDING | REV M F/R | REVIEW MOTOR |
| N. SW 12V | NON SW 12V | | FORWARD/REVERSE |
| N. SW. 5. DET | NON SW 5V DETECT | REV M V1 | REVIEW MOTOR V1 |
| NICAM | NICAM | REV M V2 | REVIEW MOTOR V2 |
| NICAM [L] | NICAM Ⓛ | REV MOTOR F/R | REVIEW MOTOR |
| NOL [H] | PAL Ⓗ/4.43 NTSC Ⓜ/3.58 NTSC Ⓛ | | FORWARD/REVERSE |
| NOR/SOFT [H] | NORMAL/SOFT TAPE PLAY Ⓗ | REV MOTOR V1 | REVIEW MOTOR V1 |
| NORMAL [H] | NORMAL Ⓗ | REV MOTOR V2 | REVIEW MOTOR V2 |
| NR BIAS | NR BIAS | REV MOTOR [+] | REVIEW MOTOR (+) |
| NTSC [L] | NTSC Ⓛ | REV MOTOR [−] | REVIEW MOTOR (−) |
| OCH | CONTROL AGC CIRCUIT | REV. M. GND | REVIEW MOTOR GND |
| OUT | OUTPUT | RF. CHROMA | RF CHROMINANCE SIGNAL |

| | | | |
|---|---|---|---|
| RF OUT | RF OUTPUT | SYSCON 5V | SYSTEM CONTROL 5V |
| RF Y | RF LUMINANCE SIGNAL | SYSTEM | SYSTEM SW |
| RF. Y. IN | RF LUMINANCE SIGNAL INPUT | T-PHOTO | TAKE-UP PHOTO TRANSISTOR |
| RF. Y. OUT | RF LUMINANCE SIGNAL OUTPUT | T-RL. PLS | TAKE-UP REEL PULSE |
| ROTAR. SW | ROTARY SW | T. BUSCLK | TIMER BUS CLOCK |
| ROTARY | ROTARY SW | T. BUSLSN | TIMER BUS LISTEN |
| RST | RESET | T. BUSTLK | TIMER BUS TALK |
| RST [L] | RESET Ⓛ | T. END [L] | TAPE END Ⓛ |
| Rch/INST | Rch/INSERT | T. PHOTO | TAKE-UP PHOTO TRANSISTOR |
| S IN | SERIAL DATA INPUT | TAPE END [L] | TAPE END Ⓛ |
| S OUT | SERIAL DATA OUTPUT | TAPE END [L]/CAM | TAPE END Ⓛ/CAMERA PAUSE |
| S-PHOTO | SUPPLY PHOTO TRANSISTOR | TEST | TEST MODE |
| S-RL. PLS | SUPPLY REEL PULSE | TPZ | TRAPEZOIDAL WAVE CIRCUIT |
| S. CLK | SERIAL CLOCK | TRIC [L] | TRIC PLAY Ⓛ |
| S. CLK/AV | SERIAL CLOCK/AV | TRICK [L] | TRIC PLAY Ⓛ |
| S. DATA | SERIAL DATA | TRK. ENV | AUTO TRACKING ENVELOPE DETECT |
| S. DATA/A | SERIAL DATA | TU. AUDIO | TUNER AUDIO |
| S. PHOTO | SUPPLY PHOTO TRANSISTOR | TU. GND | TUNER GND |
| S. TAB [L] | SAFETY TAB SW ON Ⓛ | TU. V. IN | TUNER VIDEO SIGNAL INPUT |
| S/P/N | SECAM/PAL/NTSC | TU. VIDEO | TUNER VIDEO |
| SC IN | SERIAL CLOCK INPUT | TUN NOR IN | TUNER NORMAL INPUT |
| SC OUT | SERIAL CLOCK OUTPUT | TUN R | TUNER AUDIO (R) |
| SCK SELECT | SERIAL CLOCK SELECT | TUN. AUDIO IN | TUNER AUDIO INPUT |
| SEL OUT [L] | SELECT OUTPUT (L) | TUNER 12V | TUNER 12V |
| SEL OUT [R] | SELECT OUTPUT (R) | TUNER L | TUNER AUDIO (L) |
| SHUTTLE 1 | SHUTTLE 1 | TUNER V IN | TUNER VIDEO SIGNAL INPUT |
| SIF | SOUND INTERMEDIATE FREQUENCY | TUNER [L] | TUNER AUDIO (L) |
| SLMUT [H] | INPUT SELECT MUTE Ⓗ | TUNER [N] | TUNER AUDIO (NORMAL) |
| SLNID [+] | SOLENOID (+) | TUNER [R] | TUNER AUDIO (R) |
| SLNID [−] | SOLENOID (−) | TUNER. 12 | TUNER 12V |
| SLW TR. MM | SLOW TRACKING MONO MULTI | TUOFF [H] | TUNER OFF Ⓗ |
| SLW TR. REF | SLOW TRACKING REFERENCE VOLTAGE | TV. AUDIO | TV AUDIO |
| | | TV/VTR | TV/VTR |
| SNS. GND | SENSOR GND | TXTON [L] | TEXT ON Ⓛ |
| SOFT [H] | SOFT TAPE PLAY Ⓗ | U. REG45V | UNREGULATOR 45V |
| SOFT [H]/NORMAL | SOFT TAPE PLAY Ⓗ/NORMAL Ⓗ | UNREG | UNREGULATOR |
| SOLENOID ON [L] | SOLENOID ON Ⓛ | UNREG19V | UNREGULATOR 19V |
| SP [H] | SP Ⓗ | V. REF | REFERENCE VOLTAGE |
| SP/L/SLP | SP/LP | V. EE [H] | VIDEO EE Ⓗ |
| SSS [L] | SLOW/STILL/STOP | V. EE [L] | VIDEO EE Ⓛ |
| STEREO LED | STEREO LED | VCO REF | REFERENCE OSCILLATER |
| STEREO [H] | STEREO Ⓗ | VD. IN | VIDEO SIGNAL INPUT |
| STEREO [L] | STEREO Ⓛ | VD. OUT | VIDEO SIGNAL OUTPUT |
| STOP. PO | STOP POSITION | VIDEO EE [L] | VIDEO EE Ⓛ |
| STOP/5V | STOP POSITION/5V | VIDEO IN | VIDEO SIGNAL INPUT |
| STOP1/TAPE SEL | STOP1 POSITION/TAPE SELECT | VIDEO OUT | VIDEO SIGNAL OUTPUT |
| STOP1/PAL:ST | STOP1 POSITION/PAL | VM | MOTOR VOLTAGE |
| STOP2. PO | STOP 2 POSITION | VM DOWN [L] | MOTOR VOLTAGE DOWN Ⓛ |
| STOP2/S-TAB | STOP 2 POSITION/SAFETY TAB SW | VSS | VERTICAL SYNC SIGNAL |
| STREO [H] | STEREO Ⓗ | VTR [H] | VTR Ⓗ |
| SUB BIAS | SUB BIAS | VTR. 12V | VTR 12V |
| SUB. SW | SUB SW | X IN | OSCILLATOR INPUT |
| SVHS CAS [L] | S-VHS CASSETTE Ⓛ | X OUT | OSCILLATOR OUTPUT |
| SW. 5. DET | SW 5V DETECT | | |
| SYNC [L] | SYNC Ⓛ | | |

**INPUT/OUTPUT CHART FOR IC6001**

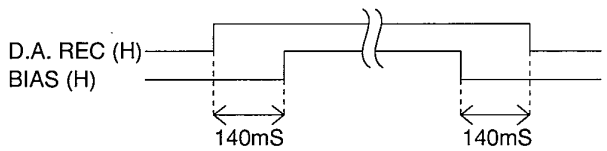
<table>
<tr><th>Pin Number</th><th>Input/Output</th><th>Port Name</th><th>Function</th></tr>
<tr><td>1</td><td>O</td><td>2H (H)</td><td>This port is high in SP mode.</td></tr>
<tr><td>2</td><td>O</td><td>FM MUTE (H)</td><td>This port is high during special playback (CUE, REV, SLOW, STILL) mode.</td></tr>
<tr><td>3</td><td>O</td><td>AUDIO MUTE (H)</td><td>This port is high during special playback (CUE, REV, SLOW, STILL) mode.</td></tr>
<tr><td>4</td><td>O</td><td>EDIT (H)</td><td>This port is high during edit.</td></tr>
<tr><td>5</td><td>O</td><td>VIDEO EE (L)</td><td>This port is low during EE mode.</td></tr>
<tr><td>6</td><td>O</td><td>VA</td><td rowspan="2">Input signal select.<table><tr><th>VCR IN</th><th>VA</th><th>VB</th></tr><tr><td>TUNER</td><td>L</td><td>L</td></tr><tr><td>AV1</td><td>H</td><td>L</td></tr><tr><td>AV2</td><td>L</td><td>H</td></tr><tr><td>AV3</td><td>H</td><td>H</td></tr></table></td></tr>
<tr><td>7</td><td>O</td><td>VB</td></tr>
<tr><td>8</td><td>O</td><td>V. CHANGE (H)</td><td>This port is high while the loading motor torque is increased in FF and REW modes.</td></tr>
<tr><td>9</td><td>O</td><td>LM LIMIT (H)</td><td>Loading motor torque limiter output.</td></tr>
<tr><td>10</td><td>O</td><td>FF/REW (L)</td><td>This port is low during FF and REW modes.</td></tr>
<tr><td>11</td><td>O</td><td>UNLOADING (H)</td><td>This port is high while the mechanism is unloaded.</td></tr>
<tr><td>12</td><td>O</td><td>LOADING (H)</td><td>This port is high while the mechanism is loaded.</td></tr>
<tr><td>13</td><td>O</td><td>D.A. REC (H)</td><td rowspan="2">Normal audio recording control.<br>  </td></tr>
<tr><td>14</td><td>O</td><td>BIAS (H)</td></tr>
<tr><td>15</td><td>O</td><td>RGB</td><td>BLANKING signal output select.<br>RGB SW OFF: HIGH<br>RGB SW ON : LOW</td></tr>
<tr><td>16</td><td>I</td><td>SHORT CHECK (H)</td><td>DC voltage (BIAS (H)) detection.<br>• When the low voltage is detected in recording mode, the VCR is turned off.<br>• When the high voltage is detected in except recording mode, the VCR is turned off.</td></tr>
<tr><td>17</td><td>I</td><td>S-VHS PB (H)</td><td>This port is high during S-VHS playback.</td></tr>
<tr><td>18</td><td>O</td><td>PB AI2 (H)</td><td>AI playback control.</td></tr>
<tr><td>19</td><td>O</td><td>PB AI1 (H)</td><td>AI playback control.</td></tr>
</table>

Fig. MP1

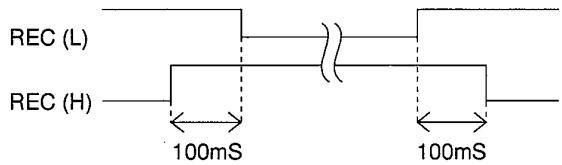
| Pin Number | Input/Output | Port Name | Function |
|---|---|---|---|
| 20 | I | S-TAB (L) | This port is low while the cassette tape with safety tab is inserted. |
| 21 | I | ABS NORM IN | HIFI audio mode detection.<br>• When the low voltage is detected, the audio output is compulsory normal audio mode. |
| 22 | I | NC | Not used (Low setting) |
| 23 | I | CPB | AV2 PB (H) setting detection for I/O circuit control.<br>• This port is high when AV2 PB (H) is set to high.<br>• This port is low when AV2 PB (H) is set to low. |
| 24 | I | REC AI (L) | AI mode selection.<br>AI PB ONLY : HIGH<br>AI PB AND REC : LOW |
| 25 | I | RESET (L) | This port is low while IC6001 is reset. |
| 26 | I | MODE SEL | Active mode selection for microprocessor. |
| 27 | I | NC | Not used (Low setting) |
| 28 | I | B | Initial setting for 21 PIN Skirt Jack.<br>B MODEL : HIGH<br>EXCEPT B MODEL: LOW |
| 29 | O | LINE (L) | Input signal control for HIFI audio circuit.<br>MIC/TUNER: HIGH<br>LINE : LOW |
| 30 | O | REC (L) | DC voltage control for recording mode.<br>  <br> |
| 31 | O | REC (H) | |
| 32 | O | A. DUB (H) | This port is high during audio dubbing mode. |
| 33 | O | SAT (H) | This port is high during VCR receive the SAT signal. |
| 34 | O | TV | Output signal control for AV1.<br>SIGNAL FROM VCR: HIGH<br>SIGNAL FROM AV2 : LOW |
| 35 | O | SYSTEM 4 | Refer to Fig. MP. 7 |
| 36 | O | SYSTEM 5 | Refer to Fig. MP. 7 |
| 37 | I | DIGITAL 5V | VDD |
| 38 | O | 12MHz OUT | Oscillator output. |
| 39 | I | 12MHz IN | Oscillator input. |

Fig. MP2

<table>
<tr><th>Pin Number</th><th>Input/Output</th><th>Port Name</th><th>Function</th></tr>
<tr><td>40</td><td>O</td><td>32KHz OUT</td><td>Oscillator output.</td></tr>
<tr><td>41</td><td>I</td><td>32KHz IN</td><td>Oscillator input.</td></tr>
<tr><td>42</td><td>I</td><td>DIGITAL GND</td><td>GND</td></tr>
<tr><td>43</td><td>O</td><td>FULL ERASE<br>(H)</td><td>Full erase on/off control.<br>ON : HIGH<br>OFF: LOW</td></tr>
<tr><td>44</td><td>O</td><td>D. REC (H)</td><td>Video signal recording on/off control.</td></tr>
<tr><td>45</td><td>O</td><td>D. FM. REC (H)</td><td>HIFI audio signal recording on/off control.</td></tr>
<tr><td>46</td><td>O</td><td>C. EMPHASYS<br>(H)</td><td>This port supplies high signal during a certain time (refer to following chart) from starting the recording to control the HIFI audio recording current.
<table>
<tr><th>TAPE SPEED</th><th>OUTPUT</th></tr>
<tr><td>NTSC 2H</td><td>6 sec</td></tr>
<tr><td>NTSC 4H</td><td>12 sec</td></tr>
<tr><td>NTSC 6H</td><td>18 sec</td></tr>
<tr><td>PAL 3H</td><td>9 sec</td></tr>
<tr><td>PAL 6H</td><td>18 sec</td></tr>
</table></td></tr>
<tr><td>47</td><td>O</td><td>REC CUR 1</td><td rowspan="3">AI REC current switching signal output.</td></tr>
<tr><td>48</td><td>O</td><td>REC CUR 2</td></tr>
<tr><td>49</td><td>O</td><td>REC CUR 3</td></tr>
<tr><td>50</td><td>O</td><td>A. H. SW</td><td>HIFI audio head switching signal output.</td></tr>
<tr><td>51</td><td>O</td><td>S. DATA OUT</td><td>Serial data output.</td></tr>
<tr><td>52</td><td>I</td><td>S. DATA IN</td><td>Serial data input.</td></tr>
<tr><td>53</td><td>O</td><td>S. CLOCK</td><td>Serial clock output.</td></tr>
<tr><td>54</td><td>O</td><td>5P S. DATA OUT</td><td>EDIT 5P serial data output.</td></tr>
<tr><td>55</td><td>I</td><td>5P S. DATA IN</td><td>EDIT 5P serial data input.</td></tr>
<tr><td>56</td><td>O</td><td>5P S. CLOCK</td><td>EDIT 5P serial clock output.</td></tr>
<tr><td>57</td><td>O</td><td>CAP R/S/F</td><td>Capstan rotation direction control.<br>REVERSE: HIGH<br>STOP : MIDDLE<br>FOWARD : LOW</td></tr>
<tr><td>58</td><td>O</td><td>CURRENT LIMIT</td><td>Capstan motor current limitter output.</td></tr>
<tr><td>59</td><td>O</td><td>ENV2</td><td>AI PB control signal output.</td></tr>
</table>

Fig. MP3

<table>
<tr><th>Pin Number</th><th>Input/Output</th><th>Port Name</th><th>Function</th></tr>
<tr><td>60</td><td>O</td><td>PIC VR OUT</td><td>This port supplies the voltage which depends on picture VR setting.</td></tr>
<tr><td>61</td><td>O</td><td>ART V/H/N</td><td>This port supplies artificial vertical sync signal to stabilize the picture in special playback mode.</td></tr>
<tr><td>62</td><td>O</td><td>VIDEO H. SW</td><td>Video head switching signal output.</td></tr>
<tr><td>63</td><td>O</td><td>ROTARY SW</td><td>Rotary switching signal output.</td></tr>
<tr><td>64</td><td>O</td><td>H. AMP. SW</td><td>Head amp switching signal output.</td></tr>
<tr><td>65</td><td>I</td><td>ENVE SELECT</td><td>This port receives the playback envelope signal level to select the video head in special playback mode.</td></tr>
<tr><td>66</td><td>I</td><td>MIC (H)</td><td>This port is high during the mic is connected.</td></tr>
<tr><td>94</td><td>I</td><td>T- PHOTO</td><td>This port receives the signal when take-up photo sensor detects the tape begining.</td></tr>
<tr><td>95</td><td>I</td><td>S-PHOTO</td><td>This port receives the signal when supply photo sensor detects the tape end.</td></tr>
<tr><td>96</td><td>I</td><td>NORMAL/<br>SERVICE/TEST</td><td>NORMAL/SERVICE/TEST mode selection.<table><tr><th>INPUT VOLTAGE</th><th>MODE</th></tr><tr><td>MORE THAN 4.0V</td><td>NORMAL</td></tr><tr><td>2.5V~4.0V</td><td>SERVICE</td></tr><tr><td>LESS THAN 2.5V</td><td>TEST</td></tr></table></td></tr>
<tr><td>97</td><td>I</td><td>SYSTEM<br>SELECT</td><td>System mode selection for auto setup.<table><tr><th>INPUT VOLTAGE</th><th>MODE</th></tr><tr><td>MORE THAN 3.0V</td><td>MODE 4</td></tr><tr><td>2.0V~3.0V</td><td>MODE 2</td></tr><tr><td>LESS THAN 2.0V</td><td>MODE 1</td></tr></table></td></tr>
<tr><td>98</td><td>I</td><td>STEREO/BIL</td><td>Audio mode detection for display on the OSD.<table><tr><th>INPUT VOLTAGE</th><th>DISPLAY</th></tr><tr><td>MORE THAN 4.2V</td><td>NO DISPLAY</td></tr><tr><td>3.0V~4.2V</td><td>MONO 1</td></tr><tr><td>2.0V~3.0V</td><td>BILINGUAL</td></tr><tr><td>0.8V~2.0V</td><td>MONO 1+2</td></tr><tr><td>LESS THAN 0.8V</td><td>STEREO</td></tr></table></td></tr>
<tr><td>99</td><td>I</td><td>DEW SNS</td><td>This port is more than 1.36V during detecting the dew formation.</td></tr>
<tr><td>100</td><td>I</td><td>ATIC SEL</td><td>Head amp IC setting for playback envelope detection.<table><tr><th>INPUT VOLTAGE</th><th>IC</th></tr><tr><td>MORE THAN 3.0V</td><td>TEA5705</td></tr><tr><td>2.0V~3.0V</td><td>AN3336</td></tr><tr><td>LESS THAN 2.0V</td><td>AN3360</td></tr></table></td></tr>
<tr><td>101</td><td>I</td><td>PIC VR IN</td><td>This port receives the voltage which depends on picture VR setting.</td></tr>
<tr><td>102</td><td>I</td><td>CHROMA IN</td><td>AI PB Chrominance level adjustment input.</td></tr>
</table>

Fig. MP4

<table>
<tr><th>Pin Number</th><th>Input/Output</th><th>Port Name</th><th>Function</th></tr>
<tr><td>103</td><td>I</td><td>SLTR MM</td><td>Slowtracking adjustment input.</td></tr>
<tr><td>104</td><td>I</td><td>AV MODE SEL</td><td>TV/VTR switch setting.<br><table><tr><td>INPUT VOLTAGE</td><td>SWITCH</td></tr><tr><td>MORE THAN 3.0V</td><td>TV/VTR</td></tr><tr><td>2.0V~3.0V</td><td>NO SW</td></tr><tr><td>LESS THAN 2.0V</td><td>AV LINK</td></tr></table></td></tr>
<tr><td>105</td><td>I</td><td>TRACKING ENVE</td><td>Playback envelope input for tracking adjustment.</td></tr>
<tr><td>106</td><td>I/O</td><td>EDIT TRIG</td><td>Trigger signal in/output for synchronized editing.</td></tr>
<tr><td>107</td><td>I/O</td><td>PB/TUN/LINE</td><td>Normal audio switching control.<br>NORMAL AUDIO PB (INCLUDING INSERT): HIGH<br>LINE IN EE OR A. DUB MODE : LOW<br>TUNER IN EE OR A. DUB MODE : Z</td></tr>
<tr><td>108</td><td>O</td><td>T SNS LED (L)</td><td>Sensor LED drive signal output.<br>• When this port supplies the low signal, the sensor LED is lit.</td></tr>
<tr><td>109</td><td>I/O</td><td>PREROLL</td><td>Preroll signal in/output for synchronized editing.</td></tr>
<tr><td>110</td><td>O</td><td>SYSTEM 2</td><td>Refer to Fig. MP. 7</td></tr>
<tr><td>111</td><td>O</td><td>SYSTEM 1</td><td>Refer to Fig. MP. 7</td></tr>
<tr><td>112</td><td>I/O</td><td>HIFI/MIX/NORM</td><td rowspan="2">Audio output mode control.<br><table><tr><td></td><td colspan="4">MODE</td></tr><tr><td></td><td>STEREO</td><td>L CH</td><td>R CH</td><td>NORMAL</td></tr><tr><td>HIFI/MIX/NORM</td><td>H</td><td>H</td><td>H</td><td>L</td></tr><tr><td>L CH/R CH/STEREO</td><td>L</td><td>H</td><td>Z</td><td>L</td></tr></table>Z: HIGH IMPEDANCE</td></tr>
<tr><td>113</td><td>O</td><td>L CH/R CH/<br>STEREO</td></tr>
<tr><td>114</td><td>I</td><td>DIGITAL 5V</td><td>VDD</td></tr>
<tr><td>115</td><td>I</td><td>POSITION SW1</td><td rowspan="3"><table><tr><th>P. SW 3</th><th>P. SW 2</th><th>P. SW 1</th><th>Position (Mode) Name</th></tr><tr><td>O</td><td>O</td><td>O</td><td>EJECT</td></tr><tr><td>O</td><td>O</td><td>I</td><td>CASSETTE DOWN</td></tr><tr><td>O</td><td>I</td><td>O</td><td>REV, REV SLOW</td></tr><tr><td>O</td><td>I</td><td>I</td><td>MID (LOADING/UNLOADING)</td></tr><tr><td>I</td><td>O</td><td>O</td><td>PLAY/REC, STILL/PAUSE, CUE, FWD SLOW STOP3 *1</td></tr><tr><td>I</td><td>O</td><td>I</td><td>STOP</td></tr><tr><td>I</td><td>I</td><td>O</td><td>FF/REW</td></tr><tr><td>I</td><td>I</td><td>I</td><td>INTERMEDIATE</td></tr></table>(*1) The Pinch Roller is on the capstan motor shaft.</td></tr>
<tr><td>116</td><td>I</td><td>POSITION SW2</td></tr>
<tr><td>117</td><td>I</td><td>POSITION SW3</td></tr>
<tr><td>118</td><td>O</td><td>AVPBL</td><td>AV1 PB (H) output control.<br>• This port is high when AV1 PB (H) is set to high.<br>• This port is low when AV1 PB (H) is set to low.</td></tr>
<tr><td>119</td><td>I</td><td>GND</td><td>GND</td></tr>
<tr><td>120</td><td>O</td><td>DEA</td><td rowspan="2">AV2 output control.<br><table><tr><td>AV2 OUTPUT</td><td>DEA</td><td>DEB</td></tr><tr><td>TUNER</td><td>H</td><td>L</td></tr><tr><td>AV1</td><td>L</td><td>L</td></tr><tr><td>SAT</td><td>L</td><td>H</td></tr><tr><td>VCR OUT</td><td>H</td><td>H</td></tr></table></td></tr>
<tr><td>121</td><td>O</td><td>DEB</td></tr>
</table>

Fig. MP5

| Pin Number | Input/Output | Port Name | Function |
|---|---|---|---|
| 122 | O | AI MES (H) | This port is high when measuring the head and tape condition to determine the optimum recording current before starting the AI recording. |
| 123 | O | POWER OFF (H) | Power on/off control. |
| 124 | O | TRICK (L) | This port is low during special playback (CUE, REV, SLOW, STILL) mode. |

Fig. MP6

| | MODE 1 | MODE 2 | MODE 3 | MODE 4 |
|---|---|---|---|---|
| PIN 111<br>(SYSTEM 1) | H: MESECAM<br>L : PAL<br>Z : AUTO | H: MESECAM<br>L : PAL | H: PAL<br>L : NTSC<br>Z : AUTO | H: MESECAM<br>L : PAL<br>Z : AUTO |
| PIN 110<br>(SYSTEM 2) | H: EXCEPT NTSC<br>L : NTSC-M | H: SECAM<br>L : PAL<br>Z : AUTO | —— | H: EXCEPT NTSC<br>L : NTSC-M |
| PIN 35<br>(SYSTEM 4) | H: PAL- I<br>L : B/G/D/K | H: SECAM<br>L : PAL | —— | H: PAL-I<br>L : B/G/D/K |
| PIN 36<br>(SYSTEM 5) | H: PAL<br>L : NTSC | H: PAL<br>L : NTSC | H: 50Hz<br>L : 60Hz | H: PAL<br>L : NTSC |

Z: HIGH IMPEDANCE

Fig. MP7

Note: 1. The mode is decided depend on SYSTEM SELECT PORT (PIN 97).

**INPUT/OUTPUT CHART FOR IC7503**

| Pin Number | Input/Output | Port Name | Function |
|---|---|---|---|
| 1 | O | L CH (L) | FIP level meter Lch (L) |
| 2 | I | AFC (S) | AFC S-CURVE |
| 3 | O | DEL (L) | AV2 connector detection<br>DECODER: LOW<br>EXT : HIGH |
| 4 | O | L CTL | LANK clock control |
| 5 | I | JOG1 | JOG1 |
| 6 | O | IC CLK | Tuner IC control clock |
| 7 | I | IR | Remote controller data |
| 8 | I | L CLK | LANK clock |
| 9 | O | FS CS (H) | FS chip select (H) |
| 10 | I | JOG2 | JOG2 |
| 11 | O | SAT IR | SAT IR output |
| 12 | I | POW FAIL (L) | Power fail detection |
| 13 | I | RESET (L) | Reset (L) |
| 14 | I | S CLK | Serial clock |
| 15 | I | S DATA IN | Serial data input |
| 16 | O | S DATA OUT | Serial data input |
| 17 | O | T CLK | Timer bus clock output |
| 18 | I | T LSN | Timer data input (from OSD) |
| 19 | O | T TLK | Timer data output (to OSD) |
| 20 | O | 128Hz | 128Hz |
| 21 | I | NC | Not used |
| 22 | O | STAND BY (L) | Stand by (L) |
| 23 | O | NC | Not used |
| 24 | O | FIP (L) | FIP heater on (L) |

Fig. MP8

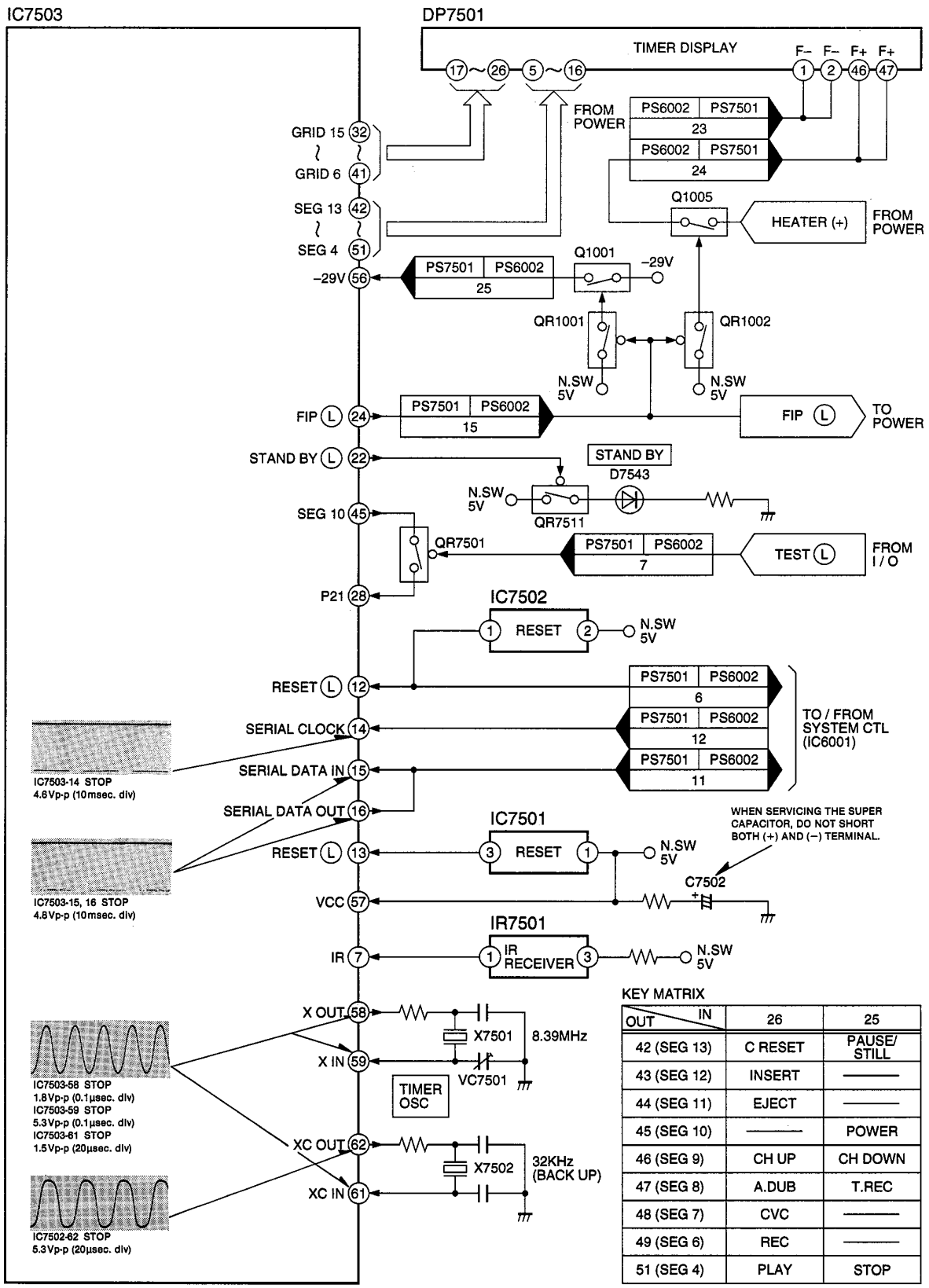
| Pin Number | Input/Output | Port Name | Function |
|---|---|---|---|
| 25<br>26<br>27<br>28<br>29 | I | KEY SCAN | Key scan input |
| 30 | O | AUDIO DEF (H) | Audio defeat high output |
| 31 | O | R CH (L) | FIP level meter Rch (L) |
| 32 | O | P17 | DGT1 |
| 33 | O | P16 | DGT2 |
| 34 | O | P15 | DGT3 |
| 35 | O | P14 | DGT4 |
| 36 | O | P13 | DGT5 |
| 37 | O | P12 | DGT6 |
| 38 | O | P11 | DGT7 |
| 39 | O | P10 | DGT8 |
| 40 | O | P07 | DGT9/Key scan output |
| 41 | O | P06 | DGT10/Key scan output |
| 42 | O | P05 | SEG J/Key scan output |
| 43 | O | P04 | SEG I/Key scan output |
| 44 | O | P03 | SEG H/Key scan output |
| 45 | O | P02 | SEG D/Key scan output |
| 46 | O | P01 | SEG E/Key scan output |
| 47 | O | P00 | SEG C/Key scan output |
| 48 | O | P37 | SEG G/Key scan output |
| 49 | O | P36 | SEG F/Key scan output |
| 50 | O | P35 | SEG B/Key scan output |
| 51 | O | P34 | SEG A/Key scan output |
| 52 | O | AI ON (H) | AI on (H) output |
| 53 | O | OSD ON (H) | OSD on (H) output |
| 54 | O | METER OFF (H) | Level meter off (H) output |

Fig. MP9

| Pin Number | Input/Output | Port Name | Function |
|---|---|---|---|
| 55 | O | MONO (H) | Forced MONO (NICAM off) (H) output |
| 56 | — | VEE | −29V |
| 57 | — | VCC | +5V |
| 58 | O | XOUT | 8.39MHz clock output |
| 59 | I | XIN | 8.39MHz clock input |
| 60 | — | VSS | GND |
| 61 | I | XCIN | 32KHz clock input |
| 62 | O | XCOUT | 32KHz clock output |
| 63 | O | SIMUL (H)/SI (H) | Simul (H) output |
| 64 | O | SELECT MUTE (H) | Audio select mute (H) output |

Fig. MP10

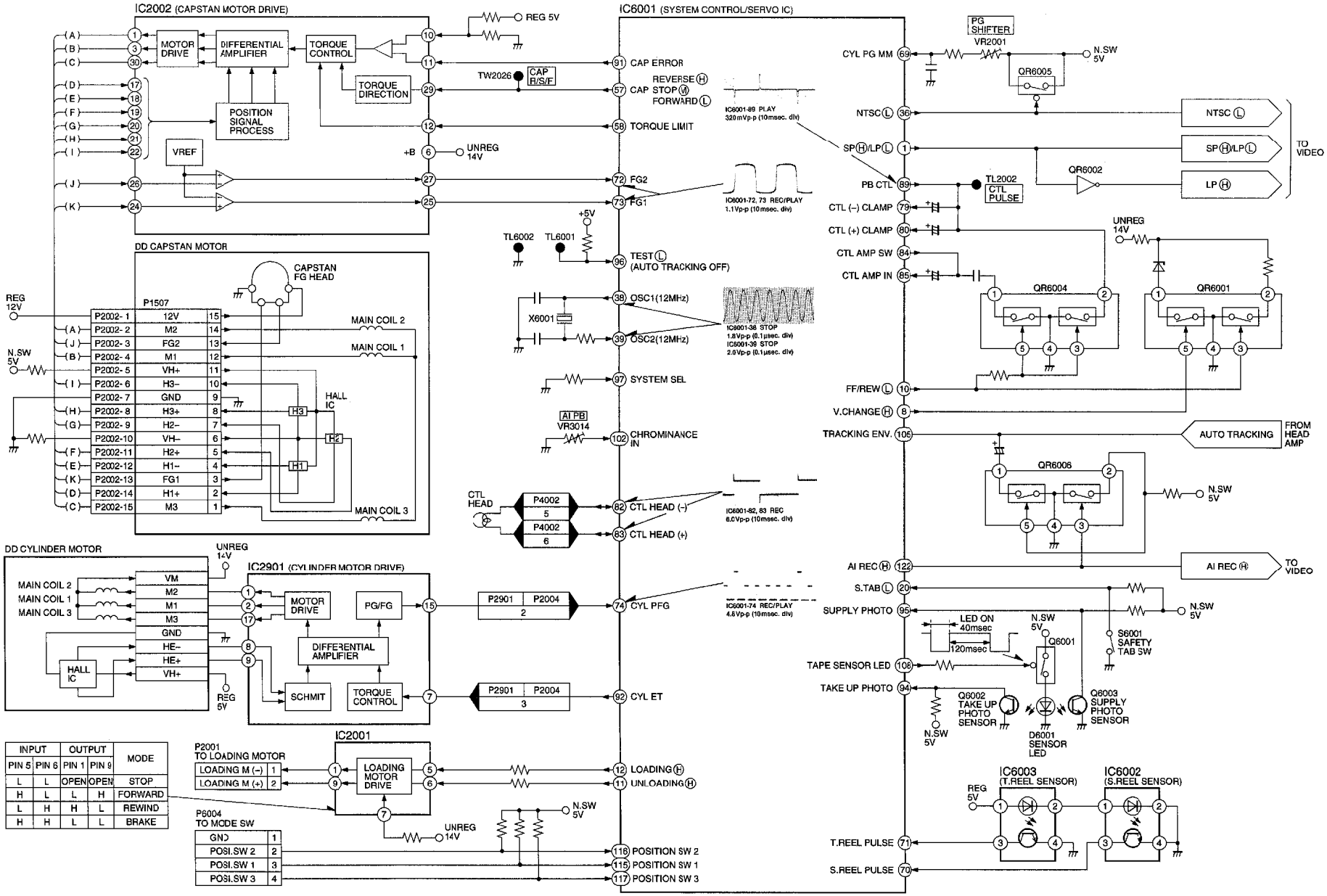
## 3-2. TIMER BLOCK DIAGRAM




KEY MATRIX

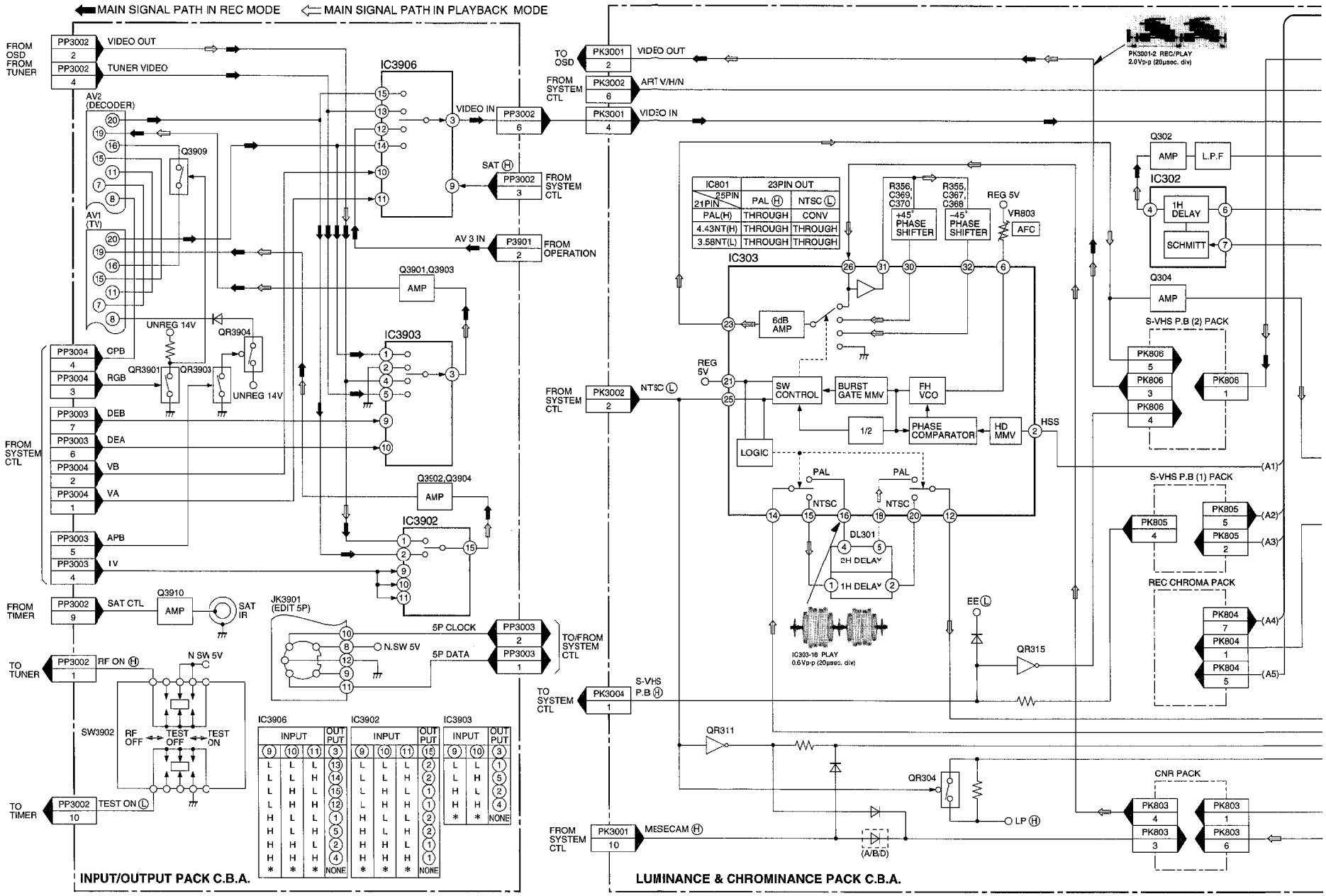
| OUT \ IN | 26 | 25 |
|---|---|---|
| 42 (SEG 13) | C RESET | PAUSE/ STILL |
| 43 (SEG 12) | INSERT | ——— |
| 44 (SEG 11) | EJECT | ——— |
| 45 (SEG 10) | ——— | POWER |
| 46 (SEG 9) | CH UP | CH DOWN |
| 47 (SEG 8) | A.DUB | T.REC |
| 48 (SEG 7) | CVC | ——— |
| 49 (SEG 6) | REC | ——— |
| 51 (SEG 4) | PLAY | STOP |

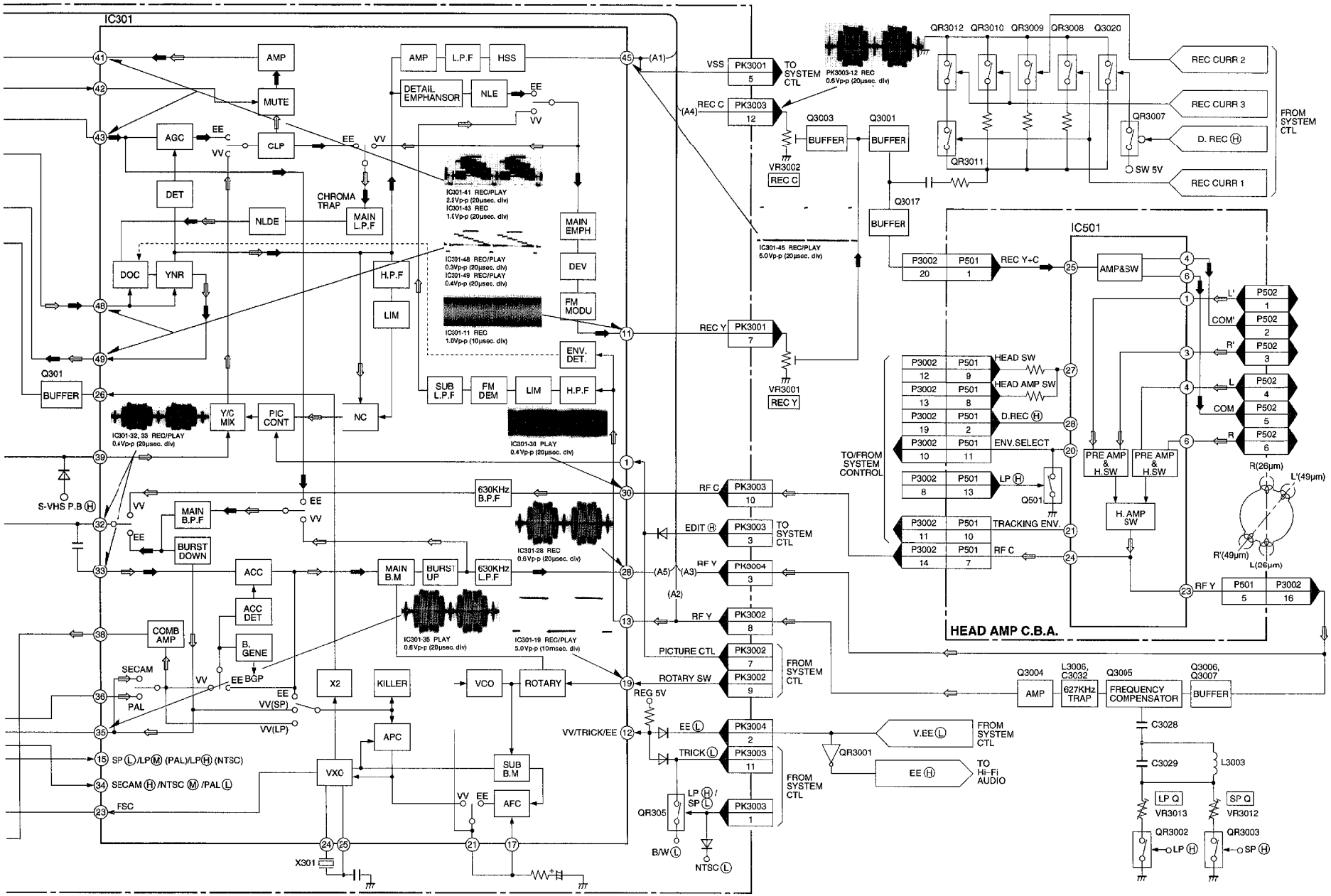
## 3-7. SYSTEM CONTROL & SERVO BLOCK DIAGRAM




| INPUT | | OUTPUT | | MODE |
|---|---|---|---|---|
| PIN 5 | PIN 6 | PIN 1 | PIN 9 | |
| L | L | OPEN | OPEN | STOP |
| H | L | L | H | FORWARD |
| L | H | H | L | REWIND |
| H | H | L | L | BRAKE |

## 3-8. LUMINANCE & CHROMINANCE BLOCK DIAGRAM

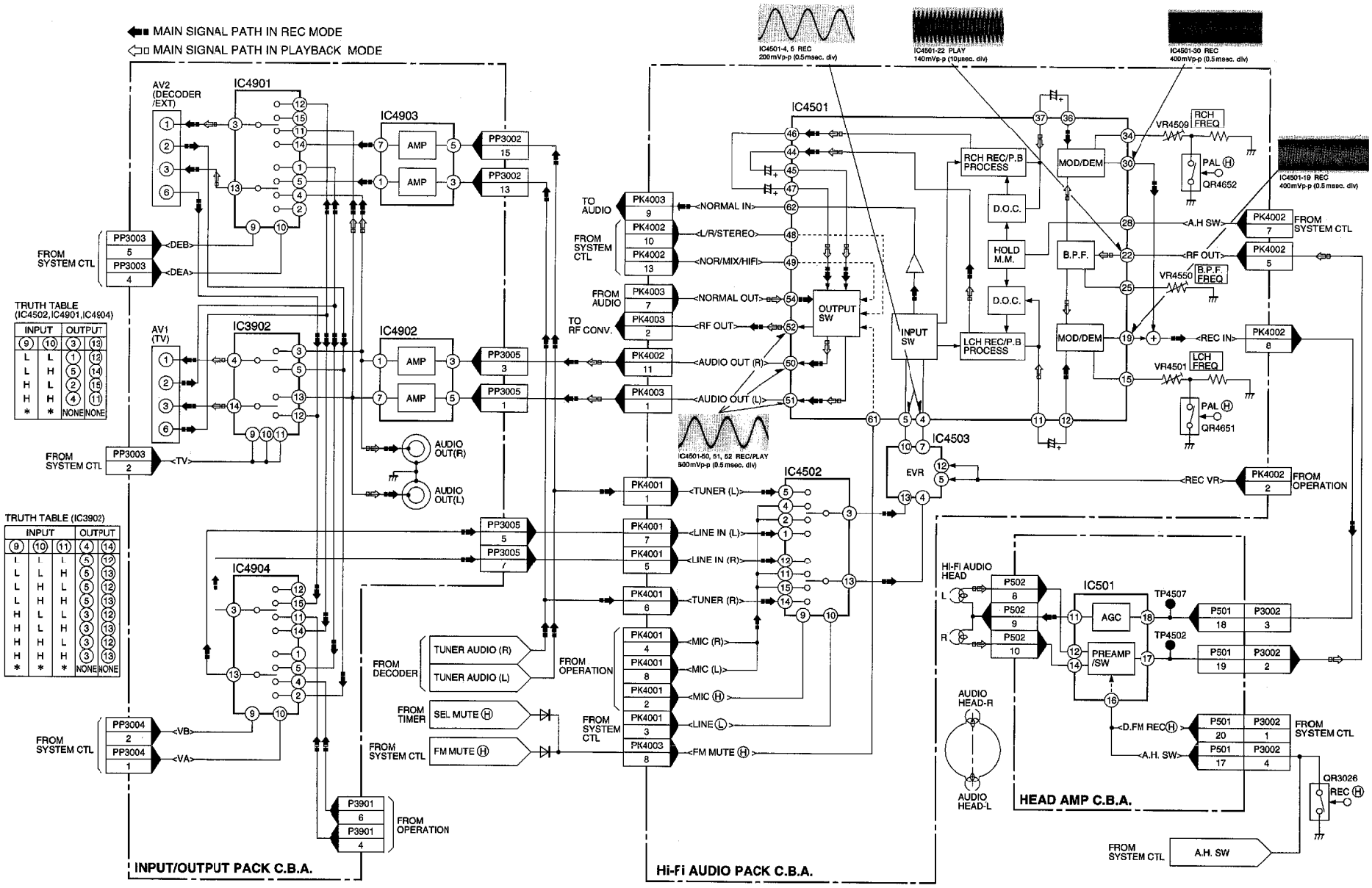



IC301
AMP
MUTE
AGC
CLP
DET
NLDE
DOC
YNR
CHROMA TRAP
MAIN L.P.F
H.P.F
LIM
AMP
L.P.F
HSS
DETAIL EMPHANSOR
NLE
MAIN EMPH
DEV
FM MODU
ENV. DET.
SUB L.P.F
FM DEM
LIM
H.P.F
Q301
BUFFER
Y/C MIX
PIC CONT
NC
S-VHS P.B Ⓗ
MAIN B.P.F
BURST DOWN
630KHz B.P.F
ACC
ACC DET
B. GENE
MAIN B.M
BURST UP
630KHz L.P.F
COMB AMP
SECAM
PAL
X2
KILLER
VCO
ROTARY
APC
VXO
SUB B.M
AFC
X301
SP Ⓛ/LPⓂ (PAL)/LPⓗ (NTSC)
SECAM Ⓗ/NTSC Ⓜ/PAL Ⓛ
FSC
VSS
PK3001
5
TO SYSTEM CTL
REC C
PK3003
12
VR3002
REC C
Q3003
BUFFER
Q3001
BUFFER
Q3017
BUFFER
REC Y
PK3001
7
VR3001
REC Y
RF C
PK3003
10
EDIT Ⓗ
PK3003
3
TO SYSTEM CTL
RF Y
PK3004
3
RF Y
PK3002
8
PICTURE CTL
PK3002
7
ROTARY SW
PK3002
9
FROM SYSTEM CTL
REG 5V
EE Ⓛ
PK3004
2
TRICK Ⓛ
PK3003
11
FROM SYSTEM CTL
LP Ⓗ/SP Ⓛ
PK3003
1
QR305
B/W Ⓛ
NTSC Ⓛ
VV/TRICK/EE
QR3001
V.EE Ⓛ
EE Ⓗ
FROM SYSTEM CTL
TO Hi-Fi AUDIO
QR3012
QR3010
QR3009
QR3008
Q3020
REC CURR 2
REC CURR 3
D. REC Ⓗ
REC CURR 1
FROM SYSTEM CTL
QR3007
SW 5V
QR3011
IC501
P3002 P501 REC Y+C 20 1
AMP&SW
P502 L' 1
P502 COM' 2
P502 R' 3
P502 L 4
P502 COM 5
P502 R 6
P3002 P501 HEAD SW 12 9
P3002 P501 HEAD AMP SW 13 8
P3002 P501 D.REC Ⓗ 19 2
P3002 P501 ENV.SELECT 10 11
P3002 P501 LP Ⓗ 8 13
Q501
P3002 P501 TRACKING ENV. 11 10
P3002 P501 RF C 14 7
TO/FROM SYSTEM CONTROL
PRE AMP & H.SW
PRE AMP & H.SW
H. AMP SW
R(26μm)
L'(49μm)
R'(49μm)
L(26μm)
P501 P3002 RF Y 5 16
HEAD AMP C.B.A.
Q3004
AMP
L3006, C3032
627KHz TRAP
Q3005
FREQUENCY COMPENSATOR
Q3006, Q3007
BUFFER
C3028
C3029
L3003
LP Q
VR3013
SP Q
VR3012
QR3002
QR3003
LP Ⓗ
SP Ⓗ

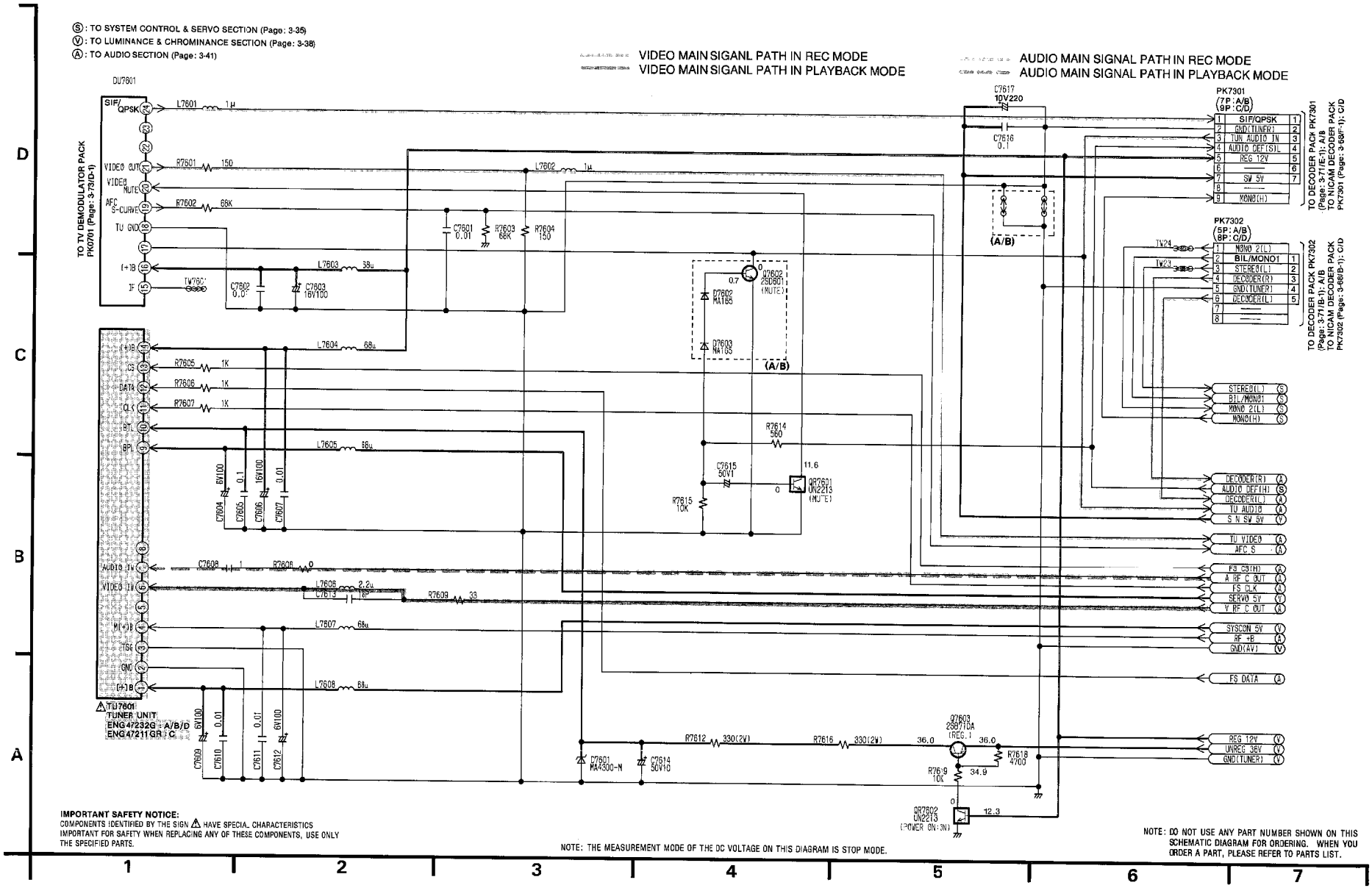
3—21

3—22

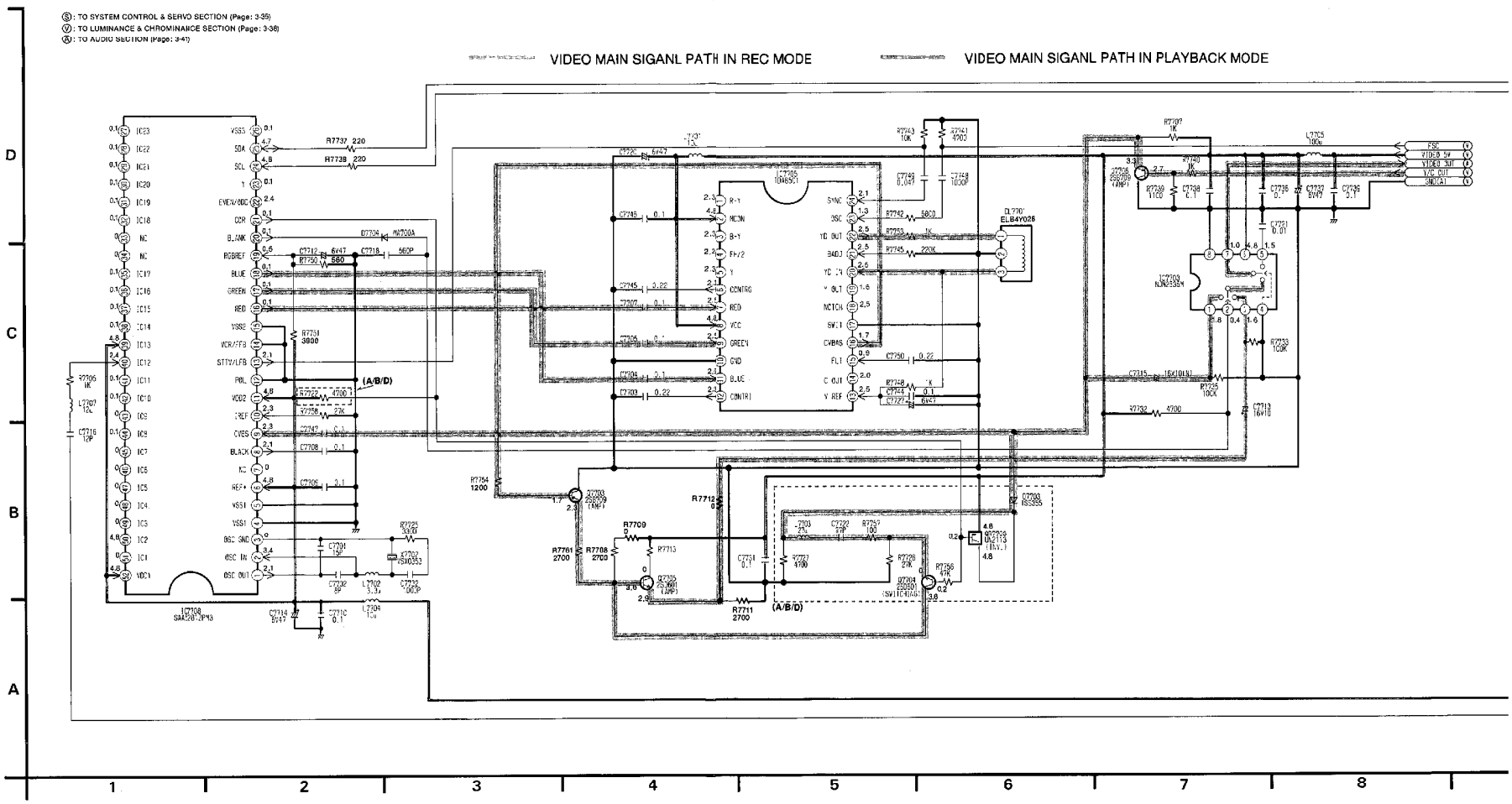
## 3-9. Hi-Fi AUDIO BLOCK DIAGRAM

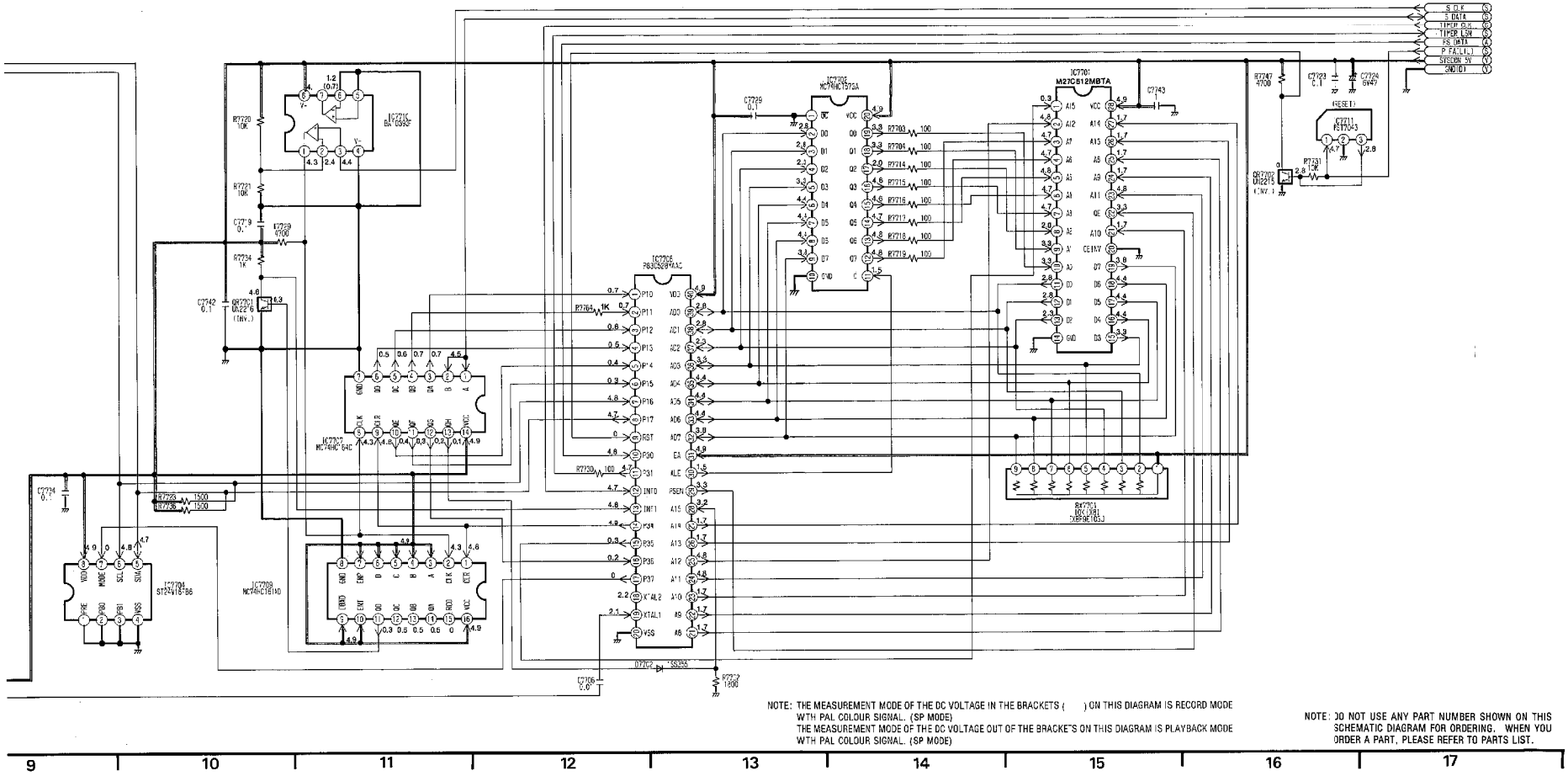


## 3-10. RF SECTION IN MAIN SCHEMATIC DIAGRAM

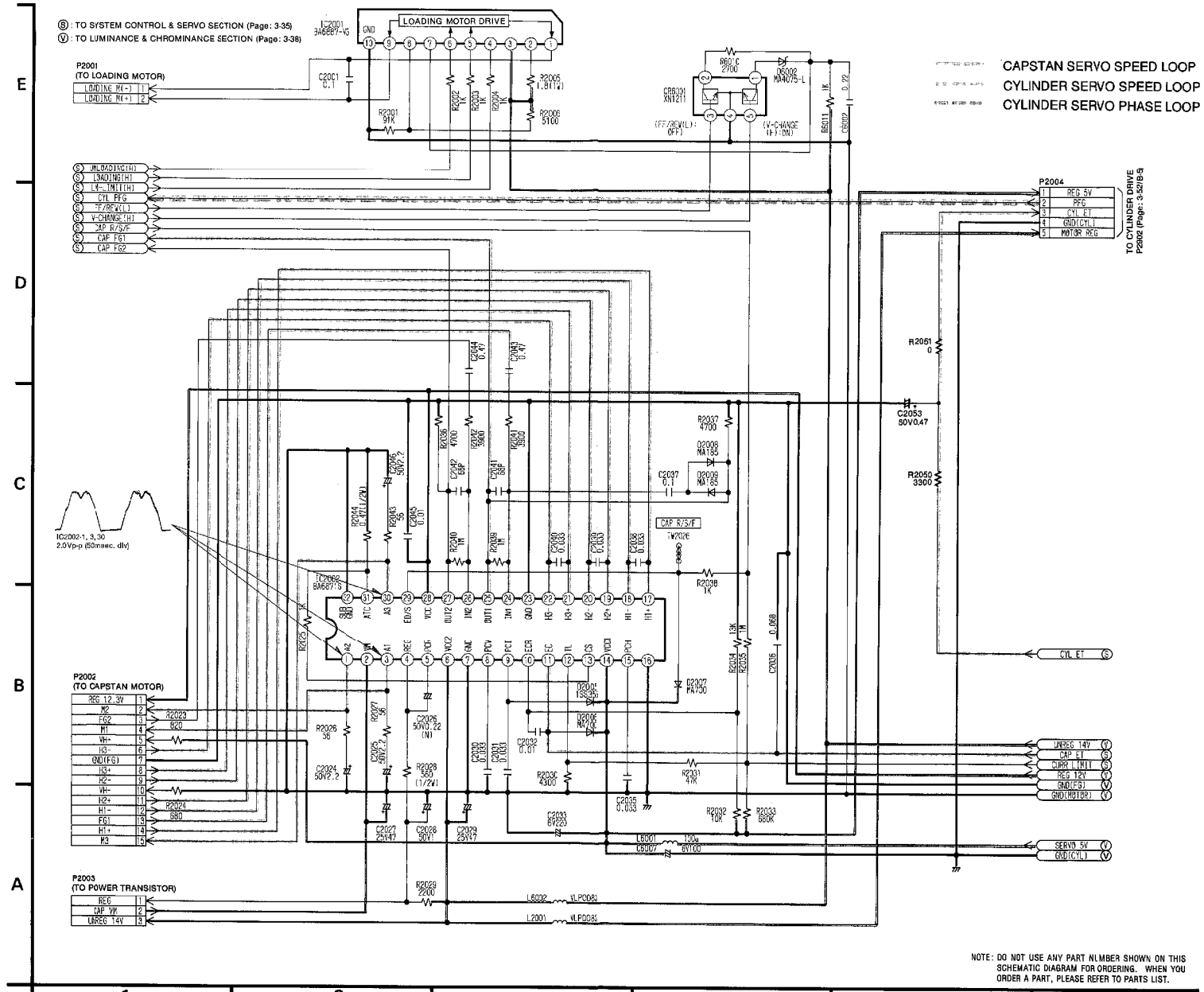


## 3-11. OSD SECTION IN MAIN SCHEMATIC DIAGRAM




S CLK
S DATA
TIMER CLK
TIMER LSN
PS INIT
P FAIL(-)
SYSCON 5V
SNDTD1
IC7705
MC74HC373DA
IC7701
M27C512MBTA
IC7706
R8302C/D/E/F/G/H/AC
IC7707
MC74HC164D
IC7704
ST24W16-B6
IC7709
MC74HC191AD
IC7715
BA10393F
IC7711
RS17043
R7720 10K
R7721 10K
C7719 0.1
R7709 4700
R7734 1K
C7742 0.1
R7764 1K
R7730 100
R7723 1500
R7736 1500
C7724 0.1
C7729 0.1
C7743 0.1
R7747 4700
C7723 0.1
C7724 6V47
R7731 1K
C7705 2.0
R7702 1990
D7702 1SS355
R7703 100
R7704 100
R7714 100
R7715 100
R7716 100
R7717 100
R7718 100
R7719 100
R7701 (CHIP) 2XBF9E103J
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.
9
10
11
12
13
14
15
16
17

## 3-12. MOTOR DRIVE SECTION IN MAIN SCHEMATIC DIAGRAM


Ⓢ : TO SYSTEM CONTROL & SERVO SECTION (Page: 3-35)
Ⓥ : TO LUMINANCE & CHROMINANCE SECTION (Page: 3-38)
CAPSTAN SERVO SPEED LOOP
CYLINDER SERVO SPEED LOOP
CYLINDER SERVO PHASE LOOP
LOADING MOTOR DRIVE
P2001
(TO LOADING MOTOR)
P2002
(TO CAPSTAN MOTOR)
P2003
(TO POWER TRANSISTOR)
P2004
TO CYLINDER DRIVE
P2802 (Page: 3-52/B-9)
CAP R/S/F
IC2002-1, 3, 30
2.0Vp-p (50msec. div)
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.
3—31
3—32

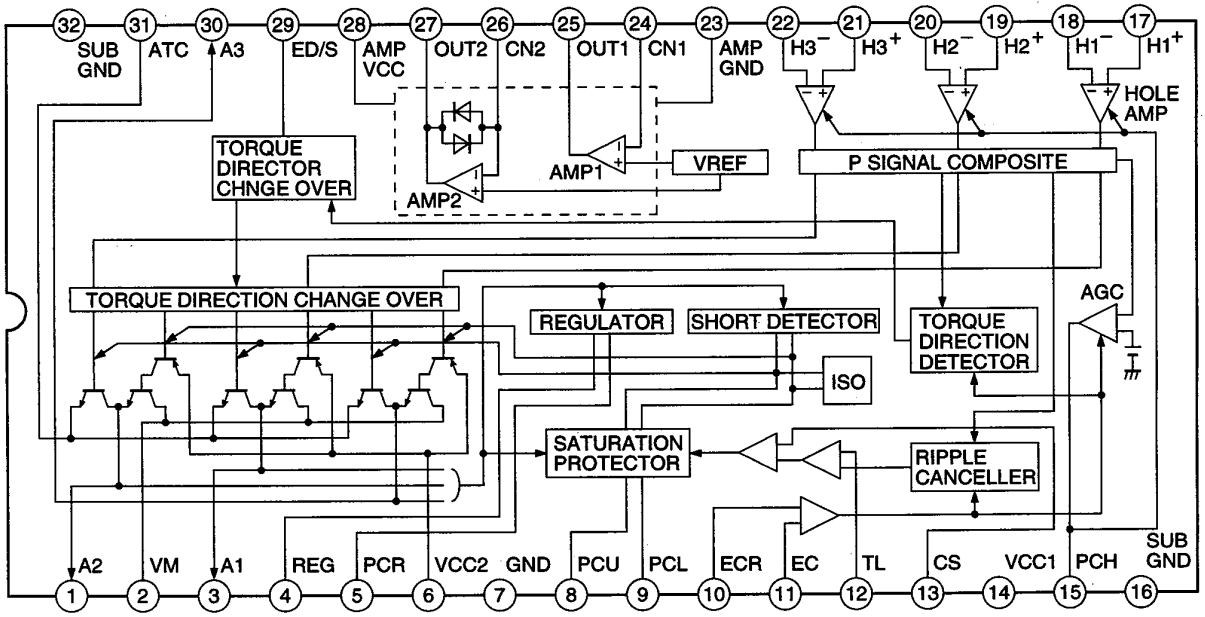
## MOTOR DRIVE ICs DC VOLTAGE CHART (SP MODE)

| REF. NO. | IC2001 | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | | | | | | | | | |
| STOP | 0.5 | 14.4 | 14.4 | 0 | 0 | 0 | 7.3 | 9.2 | 0.5 | 0 | | | | | | | | | | |
| PLAY | 0.2 | 14.4 | 14.4 | 0 | 0 | 0 | 7.3 | 8.9 | 0.2 | 0 | | | | | | | | | | |
| REC | 0.6 | 14.4 | 14.4 | 0 | 0 | 0 | 7.3 | 9.0 | 0.7 | 0 | | | | | | | | | | |
| F.F | 0.4 | 14.4 | 14.4 | 0 | 0 | 0 | 14.0 | 8.9 | 0.4 | 0 | | | | | | | | | | |
| REW | 0.4 | 14.4 | 14.4 | 0 | 0 | 0 | 14.0 | 8.9 | 0.4 | 0 | | | | | | | | | | |
| REF. NO. | IC2002 | | | | | | | | | | | | | | | | | | | |
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| STOP | 1.8 | 4.3 | 1.8 | 13.7 | 1.1 | 14.3 | 0 | 0 | 1.6 | 2.7 | 1.3 | 0 | 0 | 4.9 | 1.4 | 0 | 2.2 | 2.1 | 2.1 | 2.2 |
| PLAY | 1.6 | 4.2 | 1.5 | 12.7 | 1.7 | 14.0 | 0 | 0.6 | 0.6 | 2.7 | 2.4 | 0.3 | 0 | 4.9 | 1.4 | 0 | 2.2 | 2.2 | 2.2 | 2.2 |
| REC | 1.5 | 4.2 | 1.5 | 12.7 | 1.7 | 14.0 | 0 | 0.6 | 0.6 | 2.7 | 2.4 | 0.3 | 0 | 4.9 | 1.4 | 0 | 2.2 | 2.2 | 2.2 | 2.1 |
| F.F | 6.7 | 13.8 | 6.6 | 5.9 | 11.9 | 13.9 | 0 | 0.8 | 0.6 | 2.7 | 2.0 | 0.4 | 0 | 4.9 | 1.4 | 0 | 2.2 | 2.2 | 2.2 | 2.2 |
| REW | 6.7 | 13.9 | 6.7 | 7.1 | 12.0 | 13.9 | 0 | 0.7 | 0.6 | 2.7 | 2.2 | 0.4 | 0 | 4.9 | 1.4 | 0 | 2.2 | 2.2 | 2.2 | 2.2 |
| REF. NO. | IC2002 | | | | | | | | | | | | | | | | | | | |
| MODE | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | | | | | | | | |
| STOP | 2.2 | 2.2 | 0 | 6.3 | 6.2 | 6.3 | 6.2 | 12.2 | 1.9 | 1.8 | 0 | 0 | | | | | | | | |
| PLAY | 2.2 | 2.2 | 0 | 6.3 | 6.2 | 6.2 | 6.2 | 12.2 | 0 | 1.5 | 0 | 0 | | | | | | | | |
| REC | 2.2 | 2.2 | 0 | 6.3 | 6.2 | 6.2 | 6.2 | 12.2 | 0 | 1.4 | 0 | 0 | | | | | | | | |
| F.F | 2.2 | 2.2 | 0 | 6.2 | 6.2 | 6.2 | 6.2 | 12.2 | 0 | 6.7 | 0 | 0 | | | | | | | | |
| REW | 2.2 | 2.2 | 0 | 6.2 | 6.2 | 6.2 | 6.2 | 12.2 | 4.8 | 6.7 | 0 | 0 | | | | | | | | |

## MOTOR DRIVE TR.s DC VOLTAGE CHART (SP MODE)

| REF. NO. | QR6001 | | | | |
|---|---|---|---|---|---|
| MODE | 1 | 2 | 3 | 4 | 5 |
| STOP | 0 | 0 | 4.7 | 0 | 4.7 |
| PLAY | 0 | 0 | 4.7 | 0 | 4.7 |
| REC | 0 | 0 | 4.7 | 0 | 4.7 |
| F.F | 7.3 | 14.4 | 0 | 0 | 0 |
| REW | 7.3 | 14.4 | 0 | 0 | 0 |

## IC2002 (BA6871S)



## SYSTEM CONTROL & SERVO ICs DC VOLTAGE CHART (SP MODE)

| REF. NO. | IC6001 | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| STOP | 4.8 | 0 | 0 | 0 | 0.1 | 4.8 | 0 | 4.8 | 0 | 4.7 | 0 | 0 | 0 | 0 | 4.8 | 0 | 0.6 | 0 | 4.7 | 0 |
| PLAY | 4.8 | 4.8 | 0 | 0 | 4.8 | 4.8 | 0 | 4.7 | 0 | 4.7 | 0 | 0 | 0 | 0 | 4.8 | 0 | 0 | 0 | 4.7 | 0 |
| REC | 4.8 | 0 | 0 | 0 | 0.1 | 4.8 | 0 | 4.8 | 0 | 4.7 | 0 | 0 | 0 | 4.8 | 4.8 | 4.2 | 0 | 0 | 0 | 0 |
| F.F | 4.8 | 0 | 0 | 0 | 0.1 | 4.8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.8 | 0 | 0 | 0 | 0 | 0 |
| REW | 4.8 | 0 | 0 | 0 | 0.1 | 4.8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.8 | 0 | 0.7 | 0 | 0 | 0 |
| REF. NO. | IC6001 | | | | | | | | | | | | | | | | | | | |
| MODE | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| STOP | 5.0 | 0 | 0 | 0 | 4.8 | 0 | 0 | 0 | 0 | 4.8 | 0.1 | 0 | 0 | 4.8 | 4.8 | 4.8 | 4.8 | 2.1 | 2.3 | 4.5 |
| PLAY | 0 | 0 | 0 | 0 | 4.8 | 0 | 0 | 0 | 0 | 4.8 | 0.1 | 0 | 0 | 4.8 | 4.8 | 4.8 | 4.8 | 2.0 | 2.1 | 4.5 |
| REC | 5.0 | 0 | 0 | 0 | 4.8 | 0 | 0 | 0 | 0 | 0 | 4.8 | 0 | 0 | 4.8 | 4.8 | 4.8 | 4.8 | 2.0 | 2.3 | 4.5 |
| F.F | 5.0 | 0 | 0 | 0 | 4.8 | 0 | 0 | 0 | 0 | 4.8 | 0.1 | 0 | 0 | 4.8 | 4.8 | 4.8 | 3.6 | 2.0 | 2.3 | 4.5 |
| REW | 5.0 | 0 | 0 | 0 | 4.8 | 0 | 0 | 0 | 0 | 4.8 | 0.1 | 0 | 0 | 4.8 | 4.8 | 4.8 | 4.8 | 2.1 | 2.3 | 4.5 |
| REF. NO. | IC6001 | | | | | | | | | | | | | | | | | | | |
| MODE | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| STOP | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.5 | 4.5 | 4.4 | 4.8 | 4.8 | 4.8 | 1.9 | 0 | 2.4 | 3.7 |
| PLAY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.4 | 4.5 | 4.5 | 4.4 | 4.8 | 4.8 | 4.8 | 0 | 4.8 | 2.4 | 2.3 |
| REC | 0 | 0 | 4.8 | 4.8 | 4.8 | 0 | 4.8 | 4.8 | 0 | 0 | 4.5 | 4.5 | 4.4 | 4.8 | 4.8 | 4.8 | 0 | 4.8 | 4.4 | 3.6 |
| F.F | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.5 | 4.5 | 4.4 | 4.8 | 4.8 | 4.8 | 0 | 4.8 | 4.8 | 3.6 |
| REW | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.5 | 4.5 | 4.4 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 3.6 |
| REF. NO. | IC6001 | | | | | | | | | | | | | | | | | | | |
| MODE | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |
| STOP | 0 | 0 | 0 | 0 | 2.8 | 0 | 2.3 | 0 | 4.9 | 0 | 5.1 | 2.4 | 2.4 | 1.1 | 0 | 0 | 2.4 | 2.4 | 2.3 | 2.5 |
| PLAY | 0 | 2.4 | 2.4 | 0 | 4.9 | 0 | 2.3 | 0 | 3.1 | 5.0 | 3.8 | 2.3 | 1.1 | 0 | 0 | 0 | 2.4 | 2.4 | 2.4 | 2.5 |
| REC | 0 | 2.4 | 2.4 | 0 | 4.8 | 0 | 2.3 | 0 | 3.1 | 5.0 | 4.0 | 2.3 | 2.4 | 1.1 | 0 | 0 | 2.4 | 2.4 | 2.2 | 2.5 |
| F.F | 0 | 2.4 | 0 | 0 | 2.8 | 0 | 2.3 | 0 | 2.8 | 2.3 | 2.3 | 2.3 | 2.3 | 1.1 | 0 | 0 | 2.4 | 2.4 | 2.6 | 2.5 |
| REW | 0 | 2.4 | 0 | 0 | 4.8 | 0 | 2.3 | 0 | 3.1 | 2.3 | 2.3 | 2.3 | 2.4 | 1.1 | 0 | 0 | 2.4 | 2.4 | 2.2 | 2.5 |
| REF. NO. | IC6001 | | | | | | | | | | | | | | | | | | | |
| MODE | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| STOP | 4.8 | 0 | 0 | 0 | 2.4 | 2.4 | 0 | 0 | 2.4 | 4.8 | 1.3 | 2.4 | 4.8 | 4.8 | 4.9 | 4.8 | 0 | 5.0 | 0 | 0 |
| PLAY | 4.8 | 0 | 0 | 0 | 2.4 | 2.4 | 0 | 0 | 2.4 | 4.8 | 2.4 | 2.4 | 4.8 | 4.5 | 4.9 | 4.8 | 0 | 5.0 | 0 | 0 |
| REC | 4.7 | 2.3 | 2.8 | 0 | 2.4 | 2.3 | 0 | 0 | 2.4 | 4.8 | 2.3 | 2.3 | 4.8 | 4.5 | 4.9 | 4.8 | 0 | 5.0 | 0 | 0 |
| F.F | 4.8 | 0 | 0 | 0 | 2.4 | 2.4 | 0 | 0 | 2.3 | 4.8 | 2.1 | 2.4 | 4.8 | 4.7 | 4.9 | 4.8 | 0 | 5.0 | 0 | 0 |
| REW | 4.8 | 0 | 0 | 0 | 2.4 | 2.4 | 0 | 0 | 2.3 | 4.8 | 2.1 | 2.3 | 4.8 | 4.8 | 4.8 | 4.8 | 0 | 5.0 | 0 | 0 |
| REF. NO. | IC6001 | | | | | | | | | | | | | | | | | | | |
| MODE | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 |
| STOP | 2.5 | 3.0 | 4.9 | 0 | 2.3 | 4.9 | 0 | 4.8 | 0 | 0 | 0 | 4.8 | 0 | 4.8 | 0 | 0 | 4.9 | 0 | 0 | 0 |
| PLAY | 2.5 | 3.0 | 4.9 | 0 | 1.9 | 4.9 | 4.8 | 0.1 | 0 | 0 | 0 | 4.8 | 0 | 4.8 | 0 | 0 | 4.8 | 4.8 | 0 | 0 |
| REC | 2.5 | 3.0 | 4.9 | 0 | 0 | 4.9 | 0 | 0.1 | 0 | 0 | 0 | 4.8 | 0 | 4.8 | 0 | 0 | 4.9 | 0 | 0 | 0 |
| F.F | 2.5 | 3.0 | 4.9 | 0 | 2.1 | 4.9 | 0 | 0.1 | 0 | 0 | 0 | 4.8 | 0 | 4.8 | 0 | 4.9 | 4.9 | 0 | 0 | 0 |
| REW | 2.5 | 3.0 | 4.8 | 0 | 4.2 | 4.9 | 0 | 0.1 | 0 | 0 | 0 | 4.8 | 0 | 4.8 | 0 | 4.9 | 4.9 | 0 | 0 | 0 |
| REF. NO. | IC6001 | | | | | | | | | | | | | | | | | | | |
| MODE | 121 | 122 | 123 | 124 | | | | | | | | | | | | | | | | |
| STOP | 0 | 0 | 0 | 4.8 | | | | | | | | | | | | | | | | |
| PLAY | 0 | 0 | 0 | 4.8 | | | | | | | | | | | | | | | | |
| REC | 0 | 0 | 0 | 4.8 | | | | | | | | | | | | | | | | |
| F.F | 0 | 0 | 0 | 4.8 | | | | | | | | | | | | | | | | |
| REW | 0 | 0 | 0 | 4.8 | | | | | | | | | | | | | | | | |

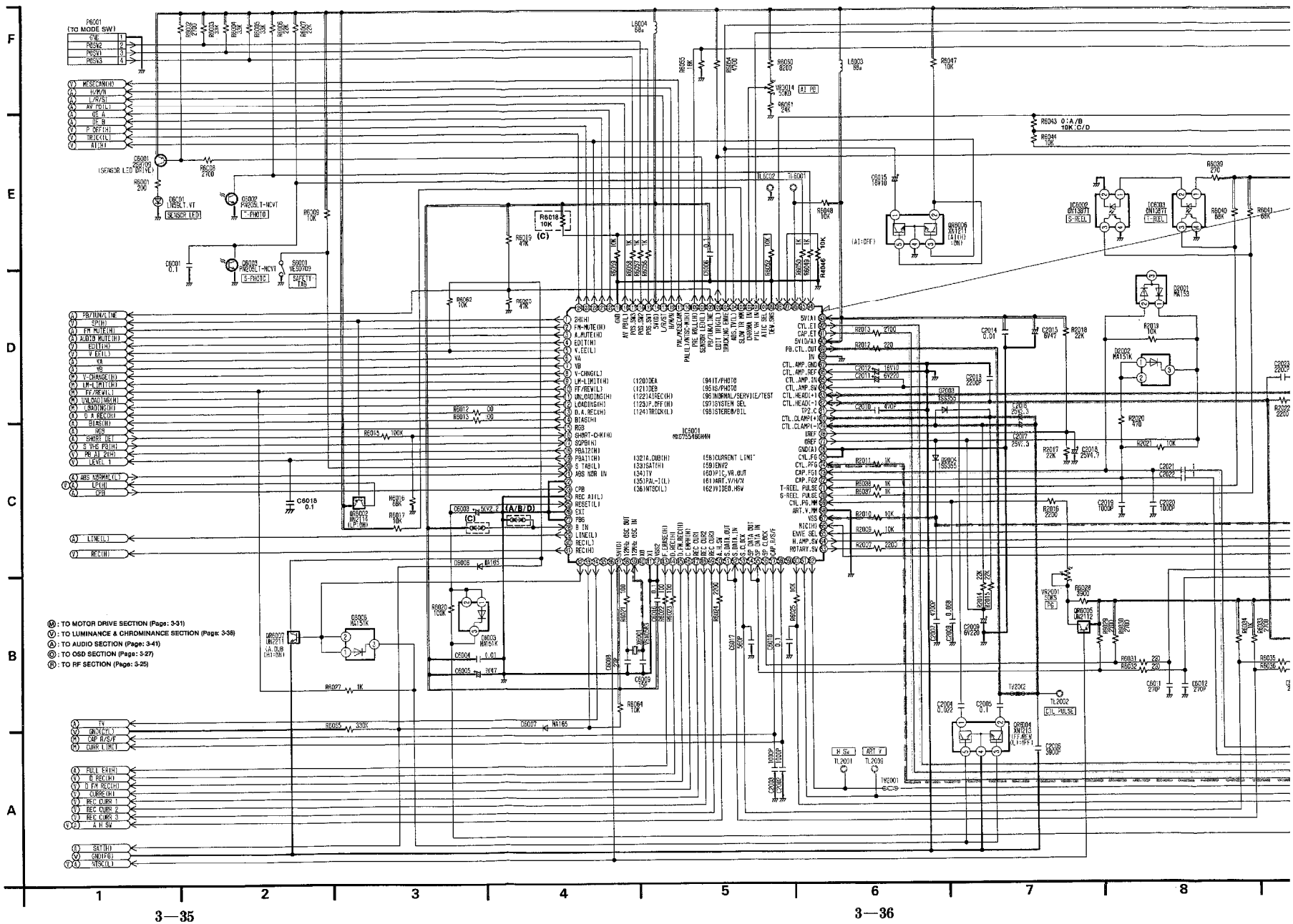
| REF. NO. | IC6002 | | | | | | | | | IC6003 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | 1 | 2 | 3 | 4 | | | | | | 1 | 2 | 3 | 4 | | | | | |
| STOP | 1.1 | 0 | 5.0 | 0 | | | | | | 2.3 | 1.1 | 5.0 | 0 | | | | | |
| PLAY | 1.1 | 0 | 5.0 | 0 | | | | | | 2.3 | 1.1 | 3.4 | 0 | | | | | |
| REC | 1.1 | 0 | 5.0 | 0 | | | | | | 2.3 | 1.1 | 4.0 | 0 | | | | | |
| F.F | 1.1 | 0 | 2.3 | 0 | | | | | | 2.3 | 1.1 | 2.3 | 0 | | | | | |
| REW | 1.1 | 0 | 2.3 | 0 | | | | | | 2.3 | 1.1 | 2.3 | 0 | | | | | |

## SYSTEM CONTROL & SERVO TR.s DC VOLTAGE CHART (SP MODE)

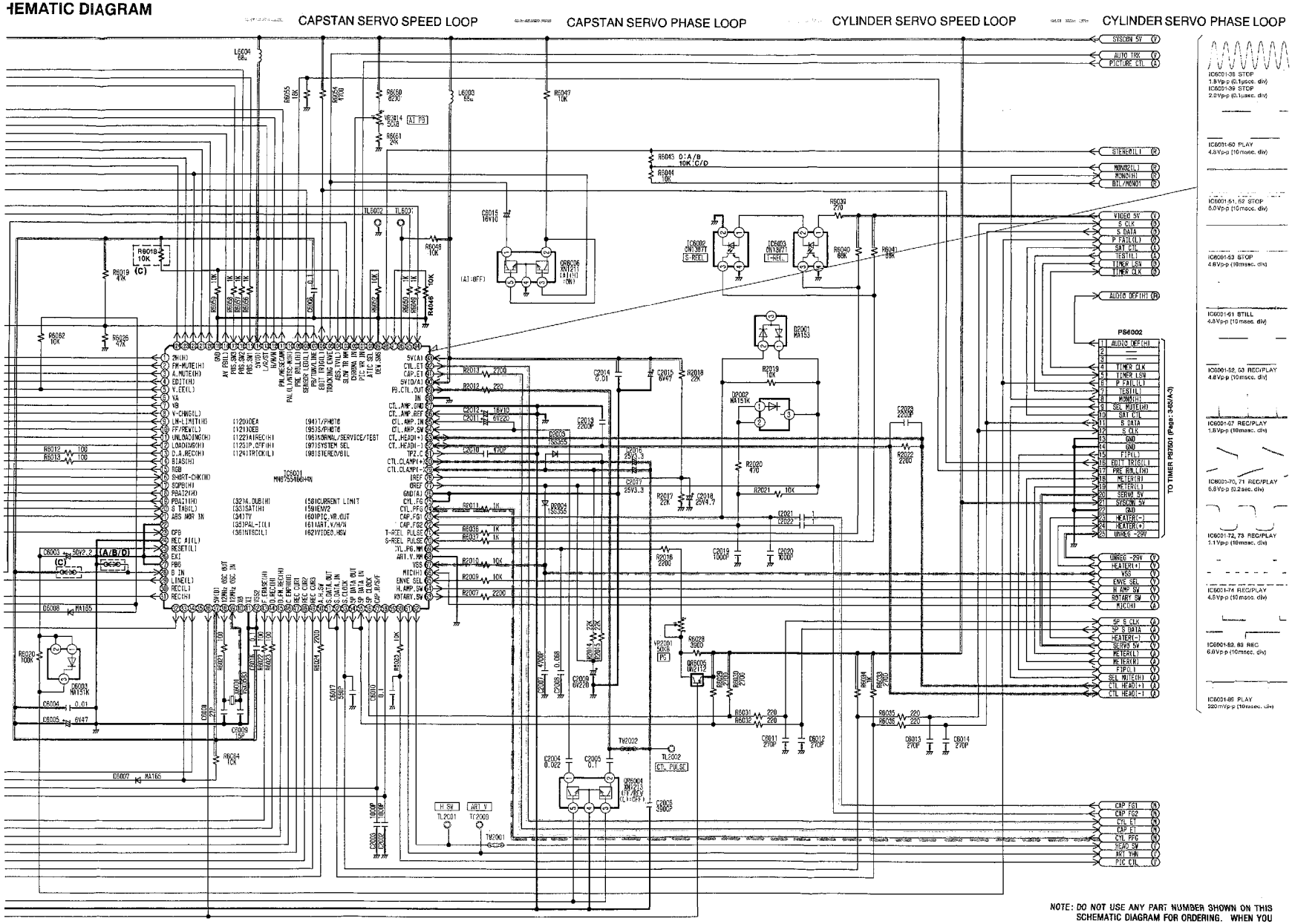
| REF. NO. | Q6001 | | | Q6002 | | | Q6003 | | | QR6002 | | | QR6004 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | E | C | B | E | C | | E | C | | E | C | B | 1 | 2 | 3 | 4 | 5 | |
| STOP | 4.9 | −0.8 | 4.9 | 0 | 4.6 | | 0 | 4.9 | | 5.0 | 0.4 | 4.8 | 0 | 0 | 4.6 | 0 | 4.6 | |
| PLAY | 4.9 | 4.8 | 4.1 | 0 | 4.6 | | 0 | 4.9 | | 5.0 | 0.4 | 4.8 | 0 | 0 | 4.6 | 0 | 4.6 | |
| REC | 4.9 | 4.8 | 4.1 | 0 | 4.6 | | 0 | 4.9 | | 5.0 | 0.4 | 4.8 | 0 | 2.8 | 0 | 0 | 2.8 | |
| F.F | 4.9 | 4.8 | 4.1 | 0 | 4.6 | | 0 | 4.8 | | 5.0 | 0.4 | 4.8 | 0 | 1.3 | 0 | 0 | 0 | |
| REW | 4.9 | 4.8 | 4.1 | 0 | 4.6 | | 0 | 4.8 | | 5.0 | 0.4 | 4.8 | 0 | 0 | 0 | 0 | 0 | |

| REF. NO. | QR6005 | | | QR6006 | | | | | | QR6007 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | E | C | B | 1 | 2 | 3 | 4 | 5 | | E | C | B | | | | | | |
| STOP | 5.0 | 4.7 | 4.8 | 0 | 2.8 | 0 | 0 | 2.8 | | 0 | 0 | 0 | | | | | | |
| PLAY | 5.0 | 4.7 | 4.8 | 0 | 2.8 | 0 | 0 | 2.8 | | 0 | 4.7 | 0 | | | | | | |
| REC | 5.0 | 4.7 | 4.8 | 0 | 2.8 | 0 | 0 | 2.8 | | 0 | 0.1 | 0 | | | | | | |
| F.F | 5.0 | 4.7 | 4.8 | 0 | 2.8 | 0 | 0 | 2.8 | | 0 | 0.1 | 0 | | | | | | |
| REW | 5.0 | 4.7 | 4.8 | 0 | 2.8 | 0 | 0 | 2.8 | | 0 | 0.1 | 0 | | | | | | |

## 3-13. SYSTEM CONTROL & SERVO SECTION IN MAIN SCHEMATIC DIAGRAM

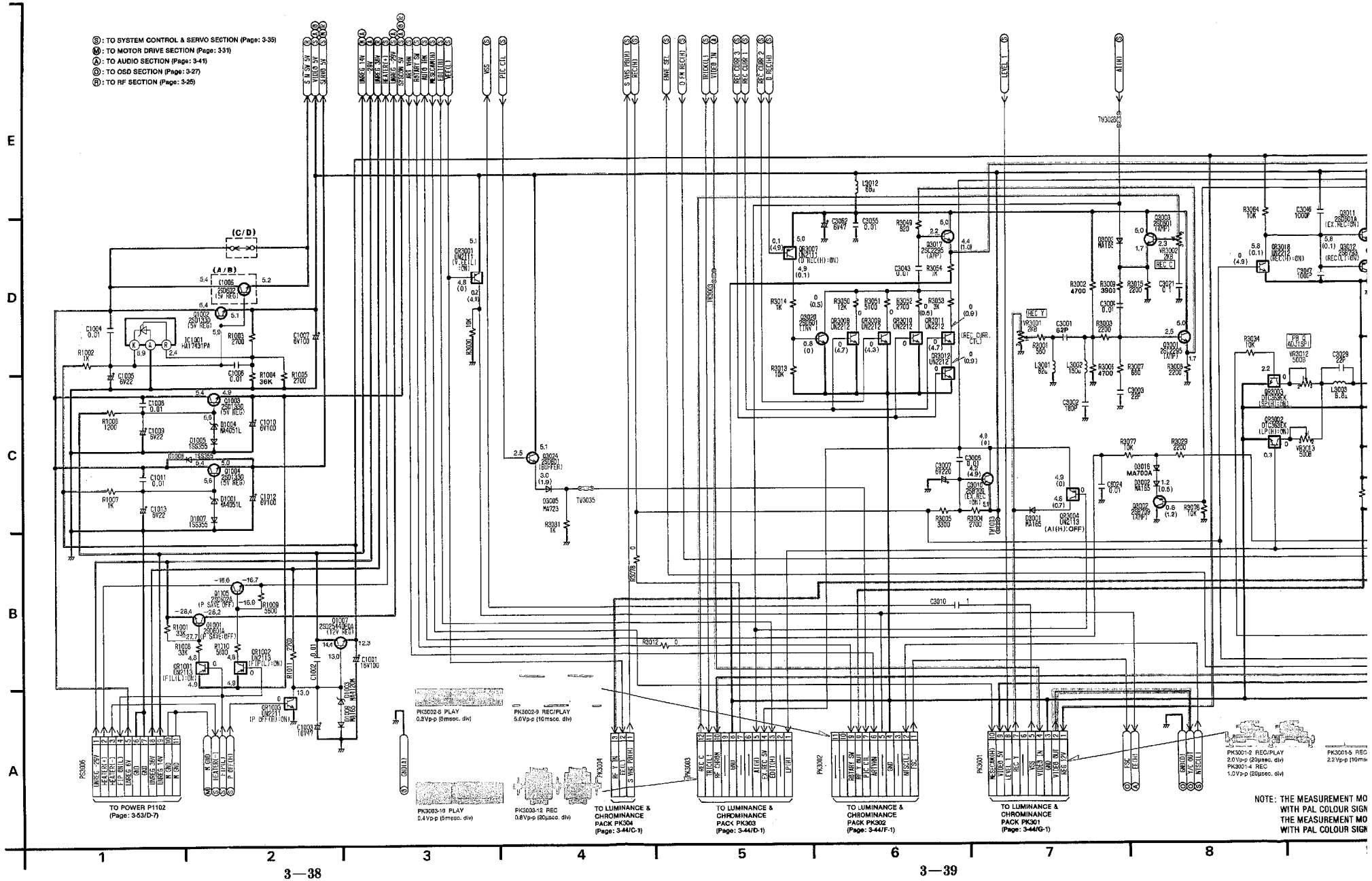


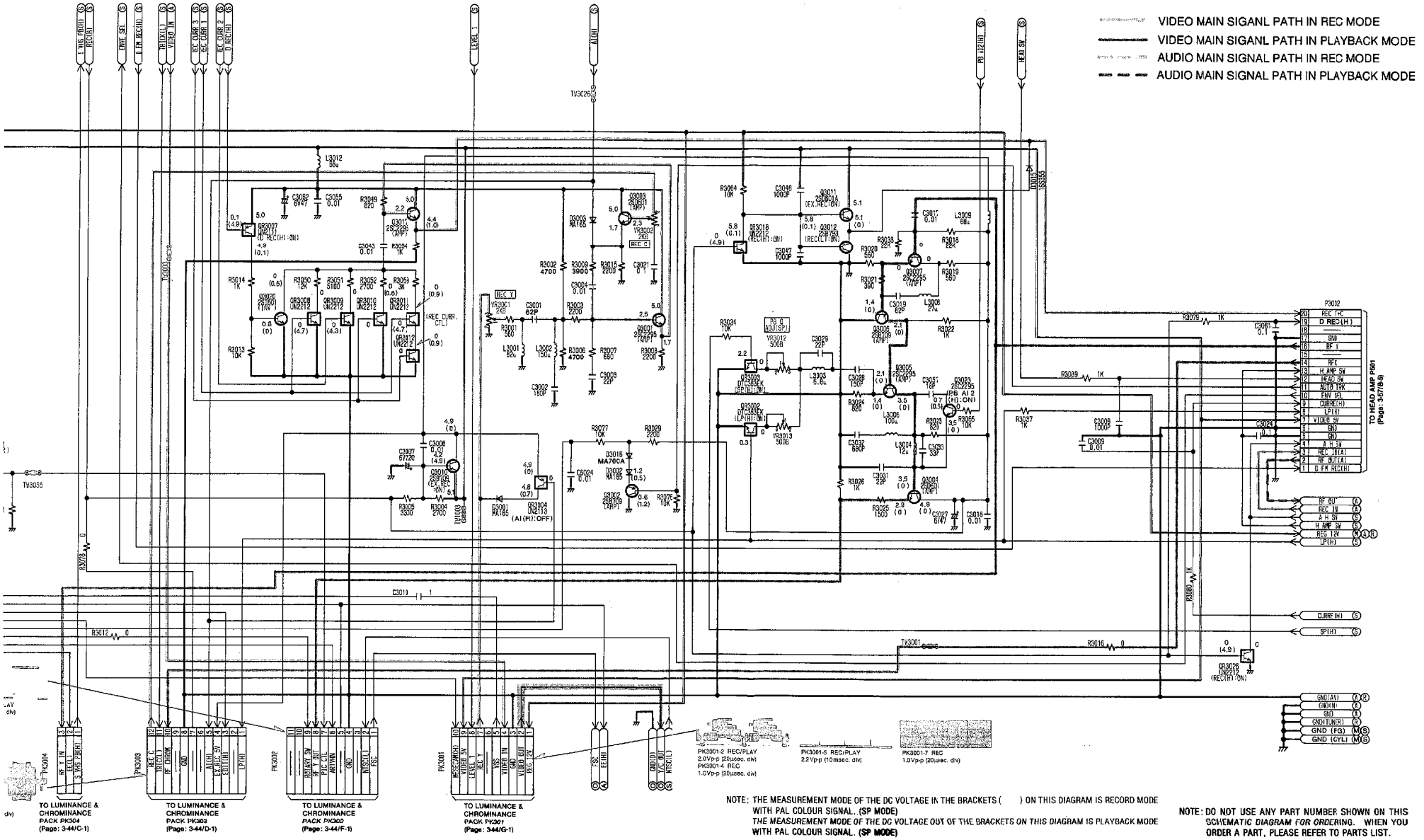
## HEMATIC DIAGRAM




NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

## 3-14. LUMINANCE & CHROMINANCE SECTION IN MAIN SCHEMATIC DIAGRAM


Ⓢ : TO SYSTEM CONTROL & SERVO SECTION (Page: 3-35)
Ⓜ : TO MOTOR DRIVE SECTION (Page: 3-31)
Ⓐ : TO AUDIO SECTION (Page: 3-41)
Ⓞ : TO OSD SECTION (Page: 3-27)
Ⓡ : TO RF SECTION (Page: 3-25)
(C/D)
(A/B)
TO POWER P1102 (Page: 3-53/D-7)
PK3002-8 PLAY 0.3Vp-p (5msec. div)
PK3002-9 REC/PLAY 5.0Vp-p (10msec. div)
PK3003-10 PLAY 0.4Vp-p (5msec. div)
PK3003-12 REC 0.8Vp-p (20μsec. div)
TO LUMINANCE & CHROMINANCE PACK PK304 (Page: 3-44/C-1)
TO LUMINANCE & CHROMINANCE PACK PK303 (Page: 3-44/D-1)
TO LUMINANCE & CHROMINANCE PACK PK302 (Page: 3-44/F-1)
TO LUMINANCE & CHROMINANCE PACK PK301 (Page: 3-44/G-1)
PK3001-2 REC/PLAY 2.0Vp-p (20μsec. div)
PK3001-4 REC 1.0Vp-p (20μsec. div)
PK3001-5 REC 2.2Vp-p (10m
NOTE: THE MEASUREMENT MO
WITH PAL COLOUR SIGN
THE MEASUREMENT MO
WITH PAL COLOUR SIGN


VIDEO MAIN SIGANL PATH IN REC MODE
VIDEO MAIN SIGANL PATH IN PLAYBACK MODE
AUDIO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE
TO HEAD AMP P501 (Page : 3-57/B-5)
TO LUMINANCE & CHROMINANCE PACK PK304 (Page: 3-44/C-1)
TO LUMINANCE & CHROMINANCE PACK PK303 (Page: 3-44/D-1)
TO LUMINANCE & CHROMINANCE PACK PK302 (Page: 3-44/F-1)
TO LUMINANCE & CHROMINANCE PACK PK301 (Page: 3-44/G-1)
PK3001-2 REC/PLAY 2.0Vp-p (20μsec. div) PK3001-4 REC 1.0Vp-p (20μsec. div)
PK3001-5 REC/PLAY 2.2Vp-p (10msec. div)
PK3001-7 REC 1.0Vp-p (20μsec. div)

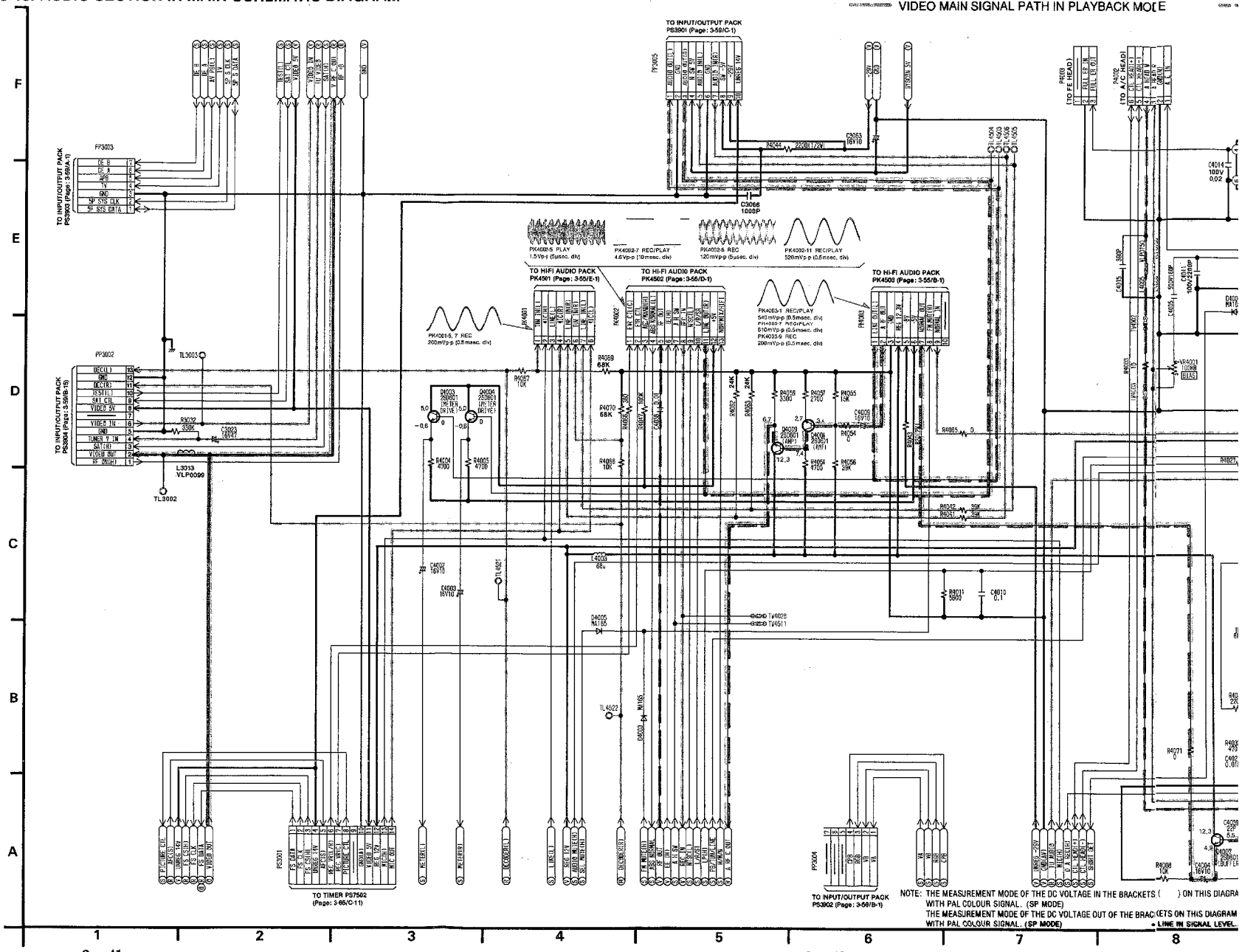
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE)
*THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)*

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

## 3-15. AUDIO SECTION IN MAIN SCHEMATIC DIAGRAM

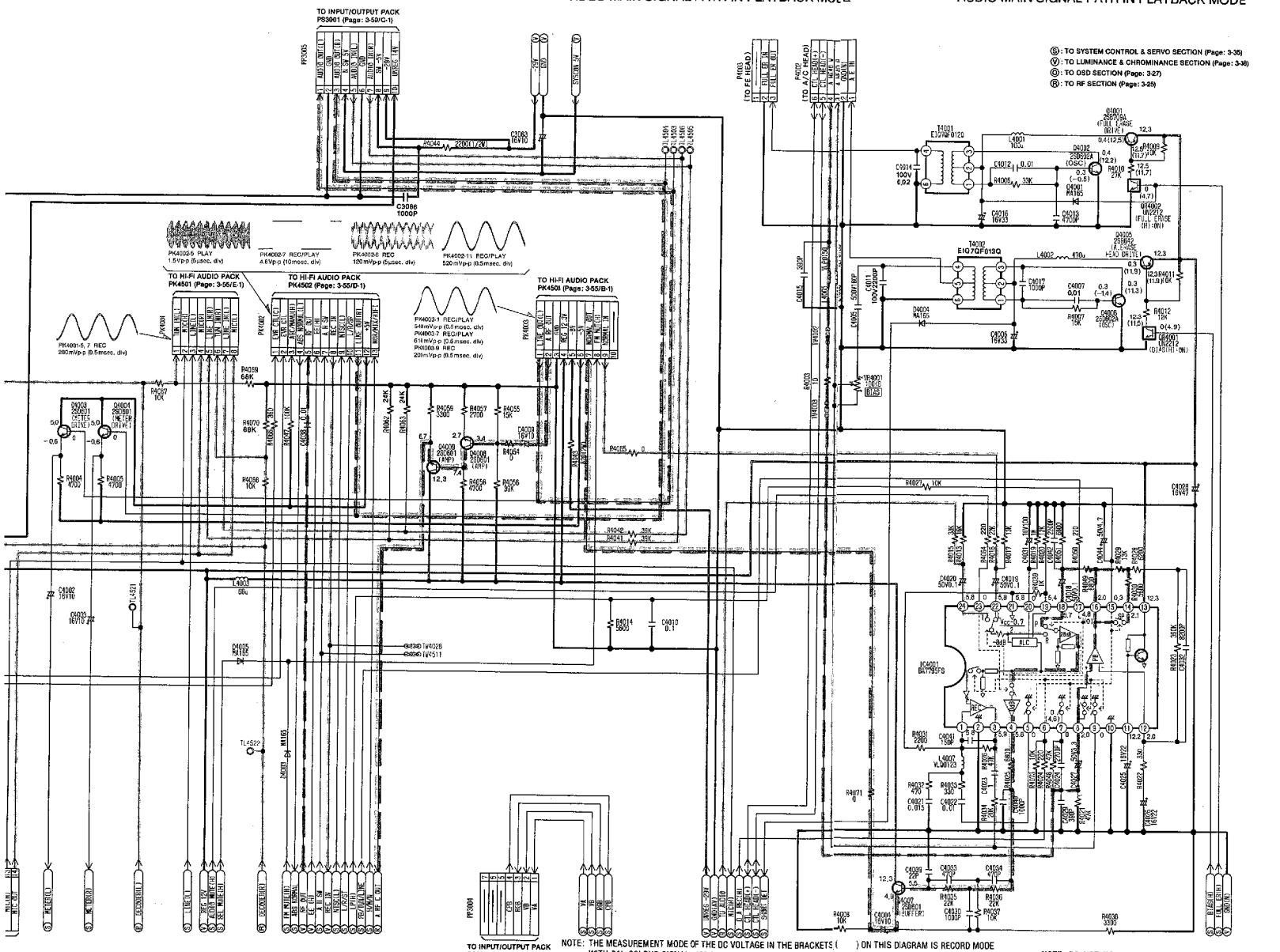
VIDEO MAIN SIGNAL PATH IN REC MODE

VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE


TO INPUT/OUTPUT PACK PS3901 (Page: 3-59/C-1)
TO INPUT/OUTPUT PACK PS3903 (Page: 3-59/A-1)
TO INPUT/OUTPUT PACK PS3902 (Page: 3-59/B-1)
TO HI-FI AUDIO PACK PK4501 (Page: 3-55/E-1)
TO HI-FI AUDIO PACK PK4502 (Page: 3-55/D-1)
TO HI-FI AUDIO PACK PK4503 (Page: 3-55/B-1)
TO TIMER PS7502 (Page: 3-66/C-11)
TO INPUT/OUTPUT PACK PS3902 (Page: 3-59/B-1)
(TO FE HEAD)
(TO A/C HEAD)
L3013 VLP0099
TL3002
TL3003
PK4001-5, 7 REC 200mVp-p (0.5msec. div)
PK4002-5 PLAY 1.5Vp-p (5μsec. div)
PK4002-7 REC/PLAY 4.6Vp-p (10msec. div)
PK4002-6 REC 120mVp-p (5μsec. div)
PK4002-11 REC/PLAY 500mVp-p (0.5msec. div)
PK4003-1 REC/PLAY 540mVp-p (0.5msec. div)
PK4003-7 REC/PLAY 610mVp-p (0.5msec. div)
PK4003-9 REC 200mVp-p (0.5msec. div)
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM WITH PAL COLOUR SIGNAL. (SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM WITH PAL COLOUR SIGNAL. (SP MODE)
• LINE IN SIGNAL LEVEL.

AM

VIDEO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
AUDIO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE

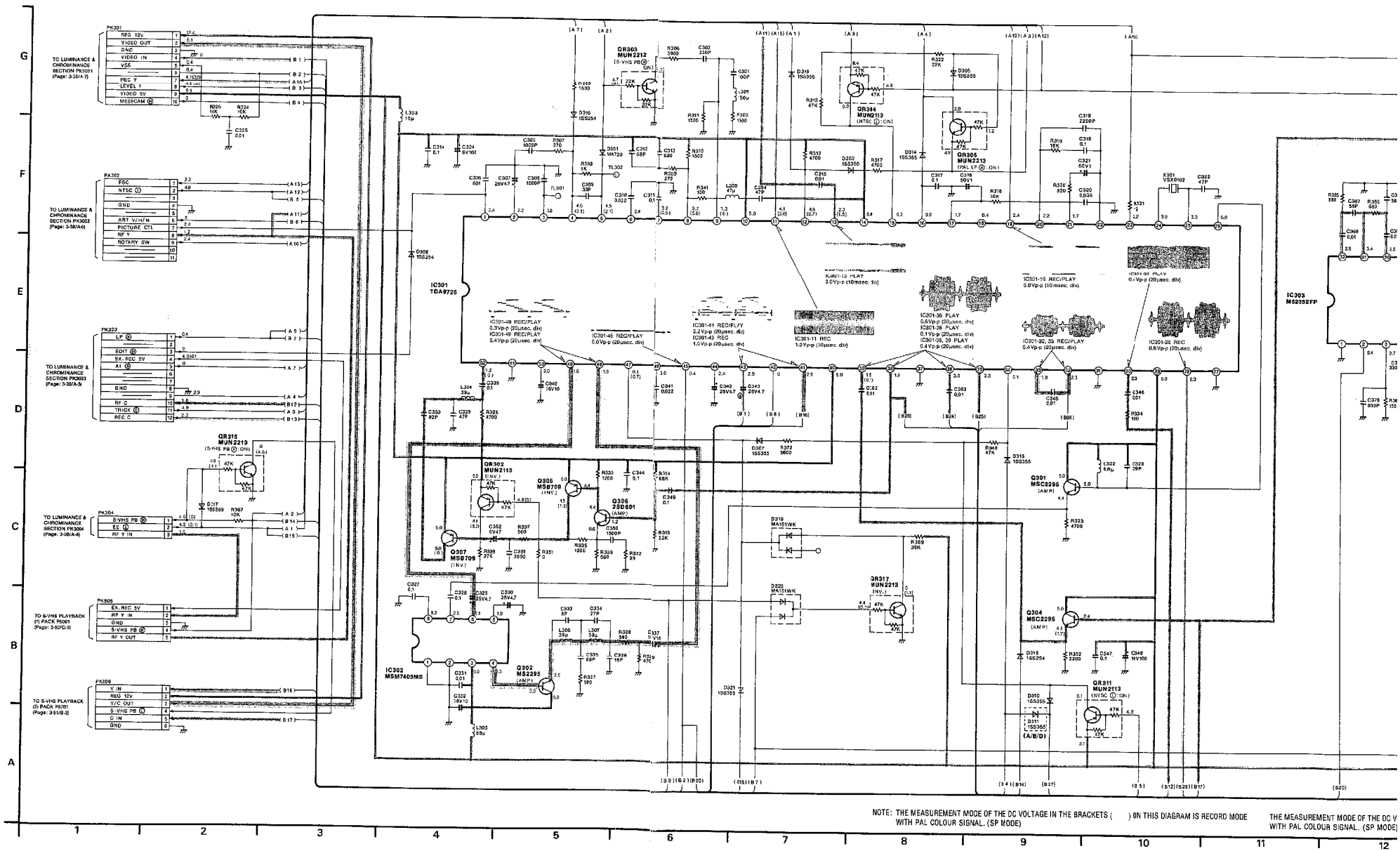

TO INPUT/OUTPUT PACK PS3901 (Page: 3-59/C-1)
TO HI-FI AUDIO PACK PK4501 (Page: 3-55/E-1)
TO HI-FI AUDIO PACK PK4502 (Page: 3-55/D-1)
TO HI-FI AUDIO PACK PK4503 (Page: 3-55/B-1)
PK4002-6 PLAY 1.5Vp-p (5μsec. div)
PK4002-7 REC/PLAY 4.6Vp-p (10msec. div)
PK4002-8 REC 120mVp-p (5μsec. div)
PK4002-11 REC/PLAY 520mVp-p (0.5msec. div)
PK4001-5, 7 REC 280mVp-p (0.5msec. div)
PK4003-1 REC/PLAY 548mVp-p (0.5msec. div)
PK4003-7 REC/PLAY 614mVp-p (0.5msec. div)
PK4003-9 REC 201mVp-p (0.5msec. div)
TO INPUT/OUTPUT PACK PS3902 (Page: 3-59/B-1)
(S): TO SYSTEM CONTROL & SERVO SECTION (Page: 3-35)
(V): TO LUMINANCE & CHROMINANCE SECTION (Page: 3-36)
(O): TO OSD SECTION (Page: 3-27)
(R): TO RF SECTION (Page: 3-29)
IC4001 BA7795FS
T4001 E10QF0120
T4002 E10Q7QF013Q

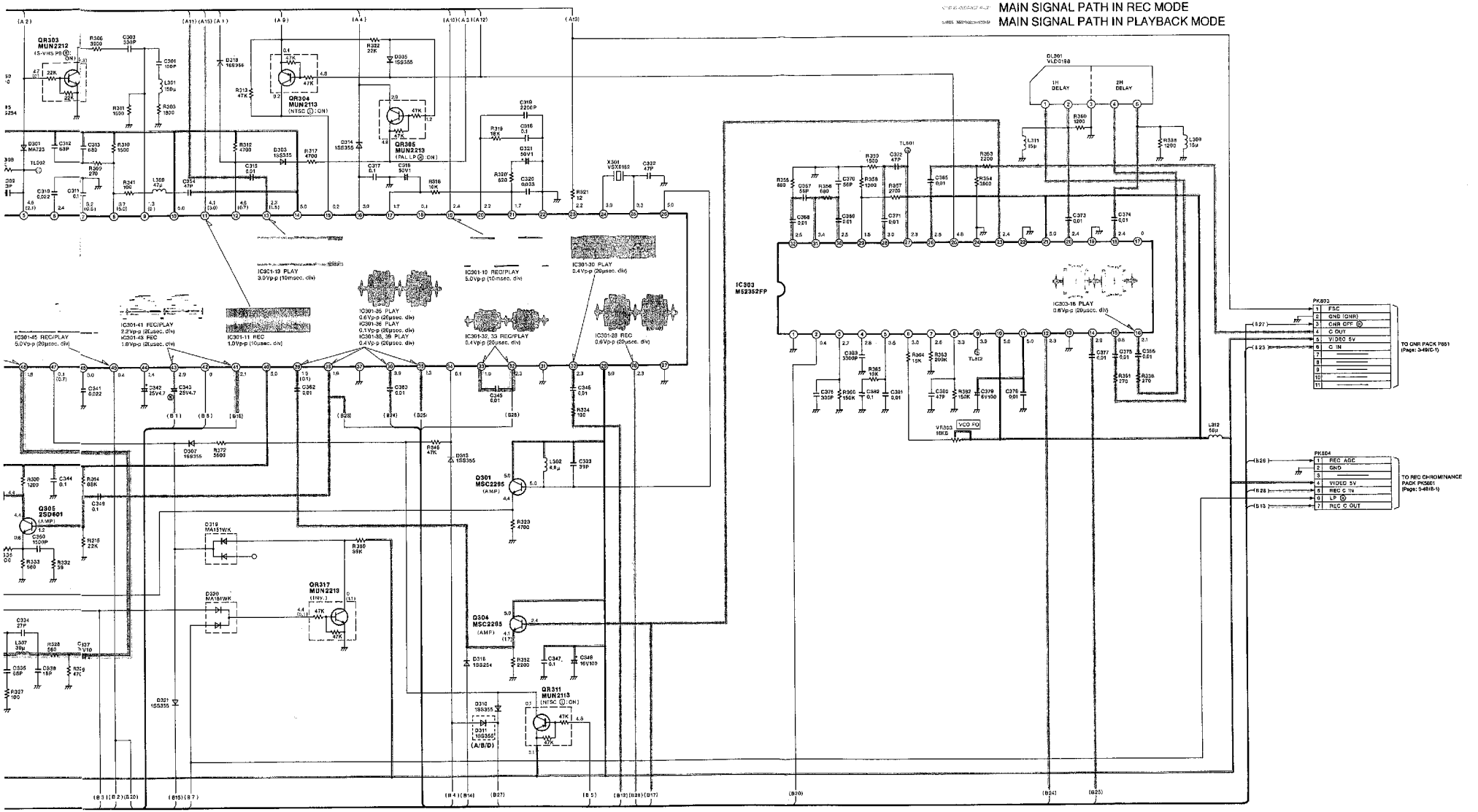
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

• LINE IN SIGNAL LEVEL.... −10dB 1kHz

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

## 3-16. LUMINANCE & CHROMINANCE PACK SCHEMATIC DIAGRAM



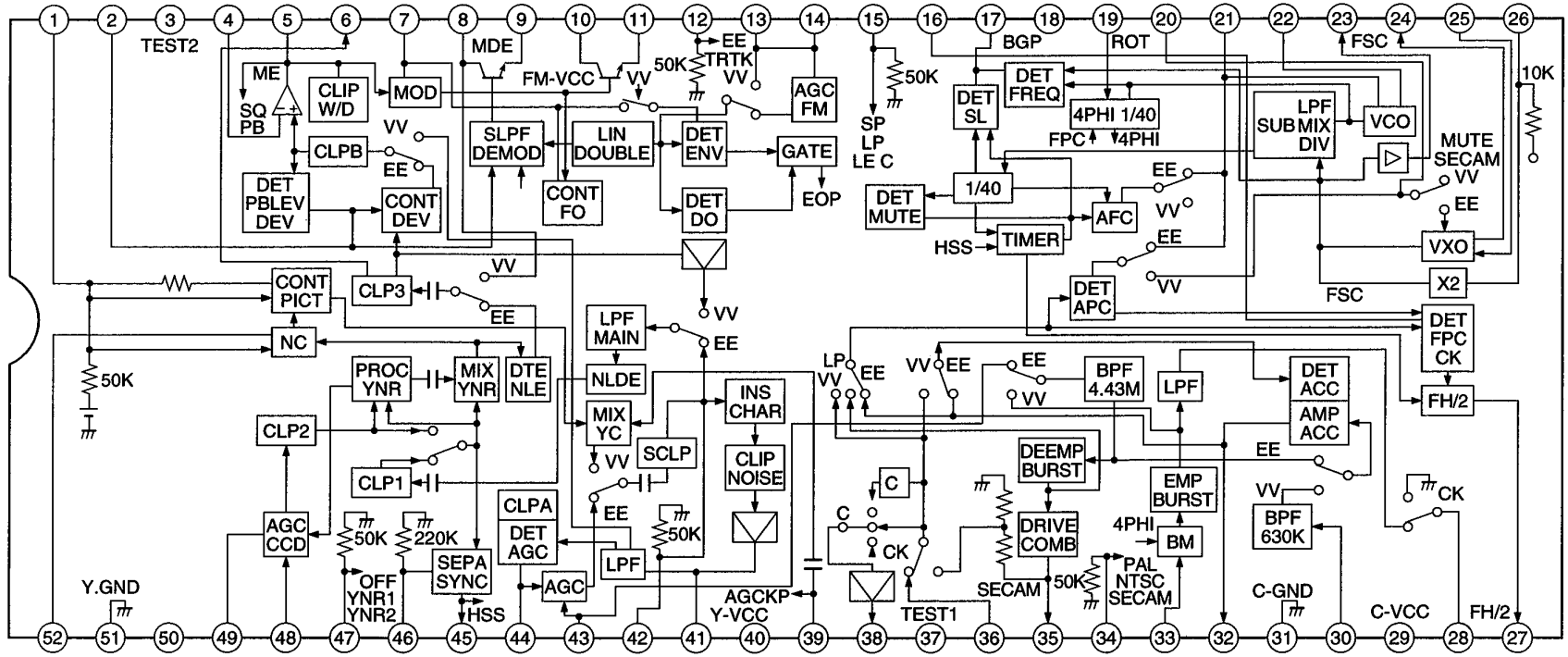



NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE)

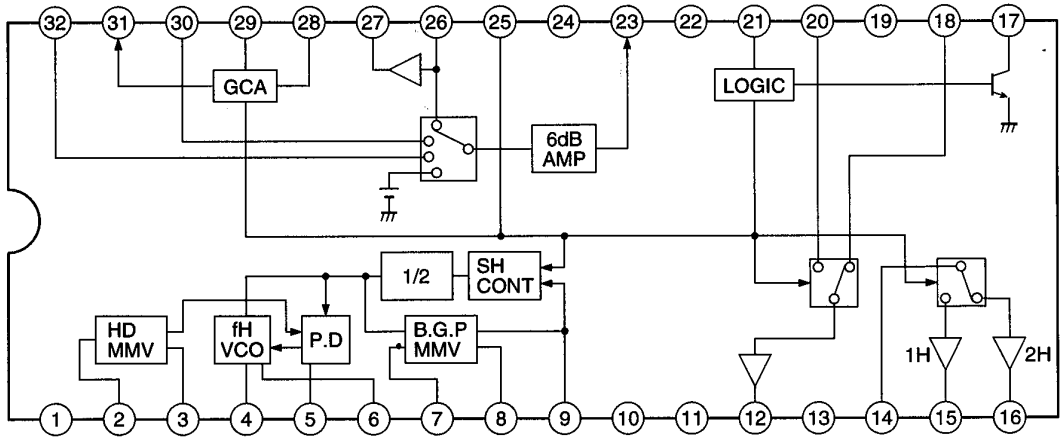
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

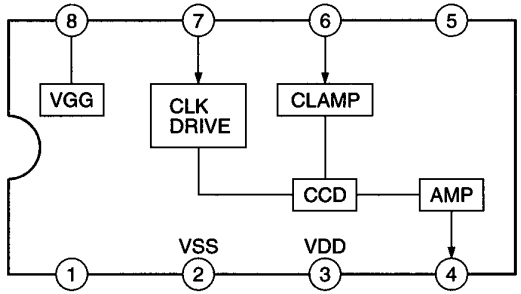
6 7 8 9 10 11 12 13 14 15 16 17



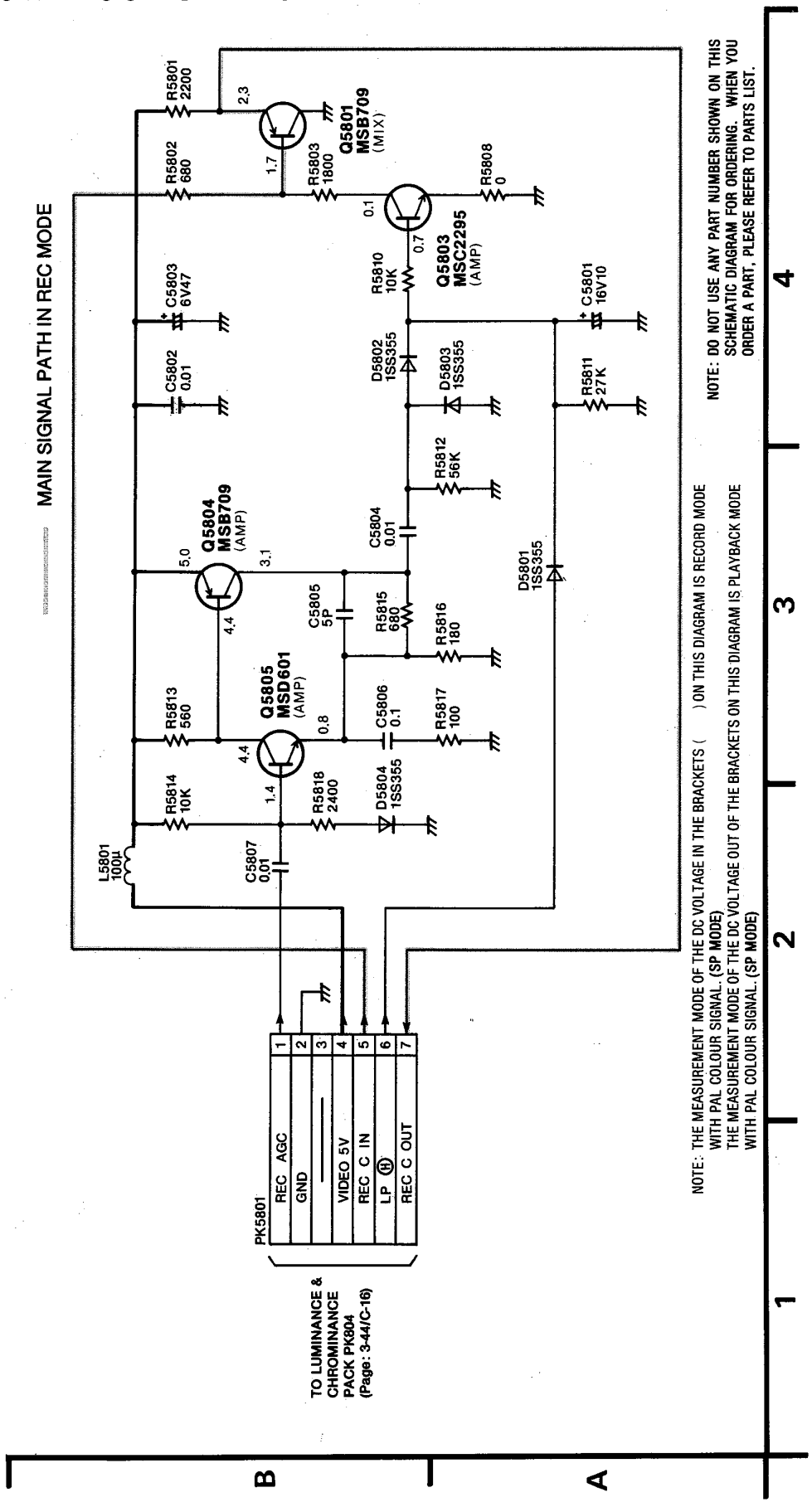

**IC303 (M52352FP)**



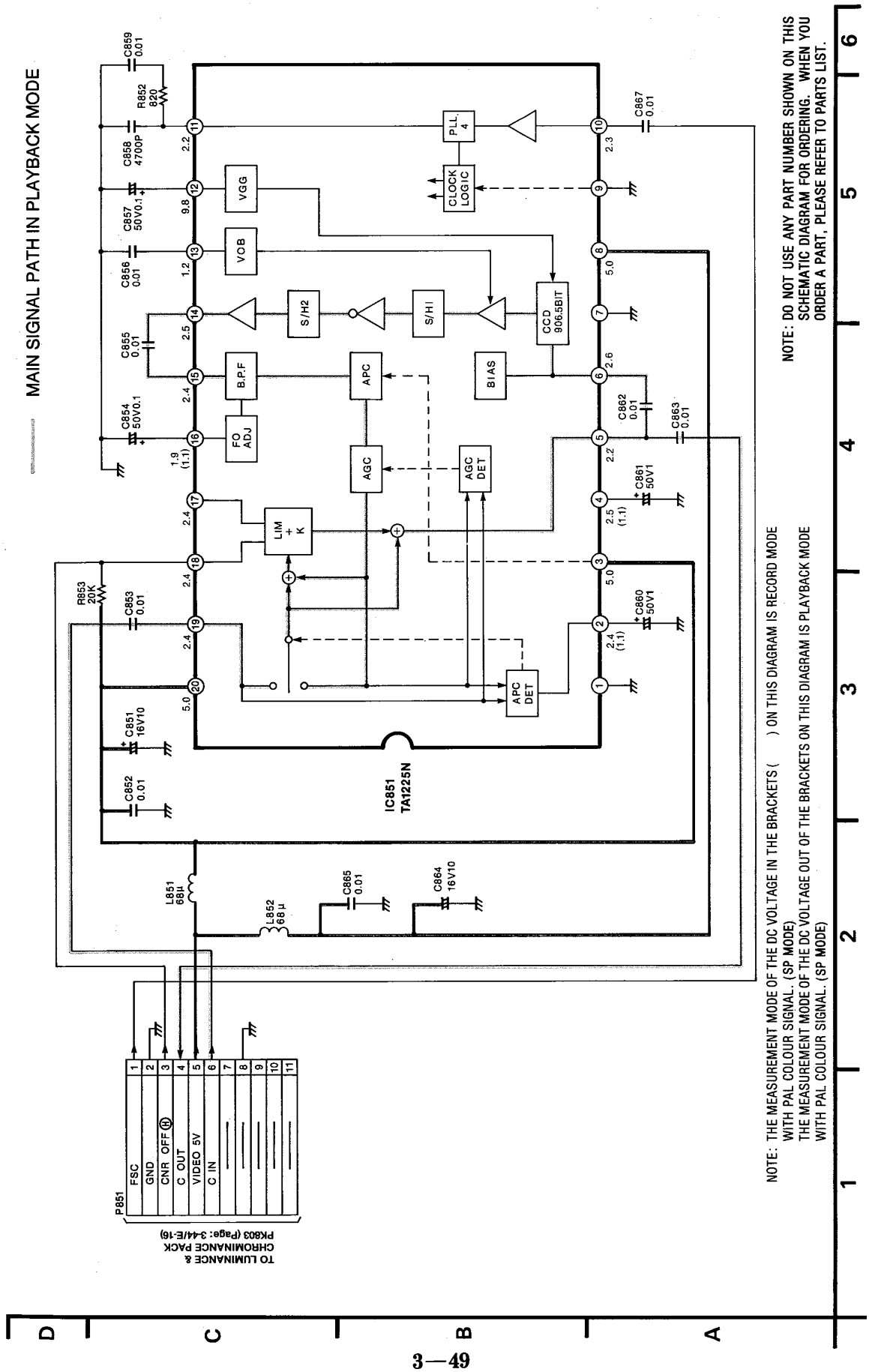

**IC302 (MSM7403MS)**



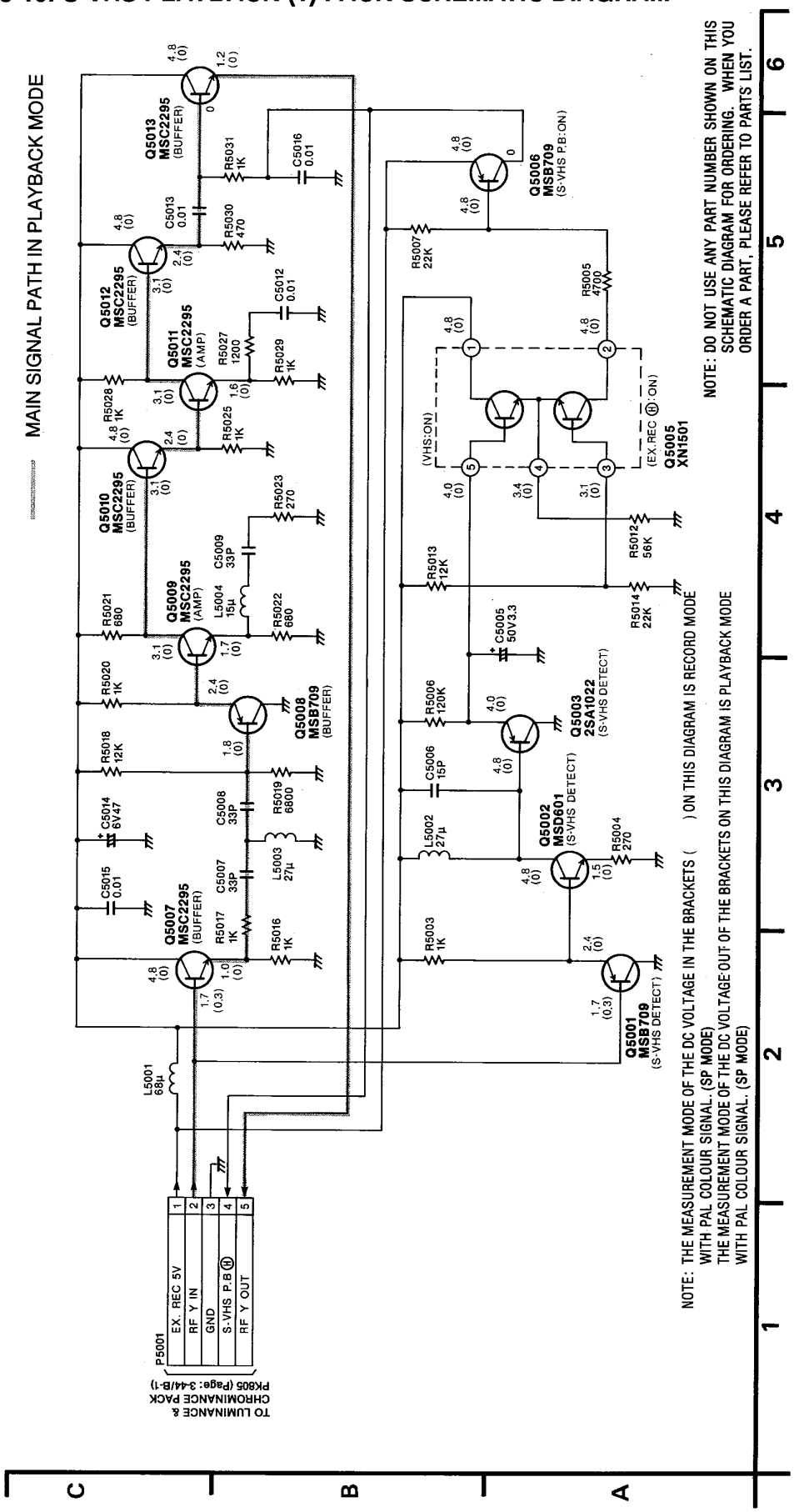
## 3-17. REC CHROMINANCE PACK SCHEMATIC DIAGRAM



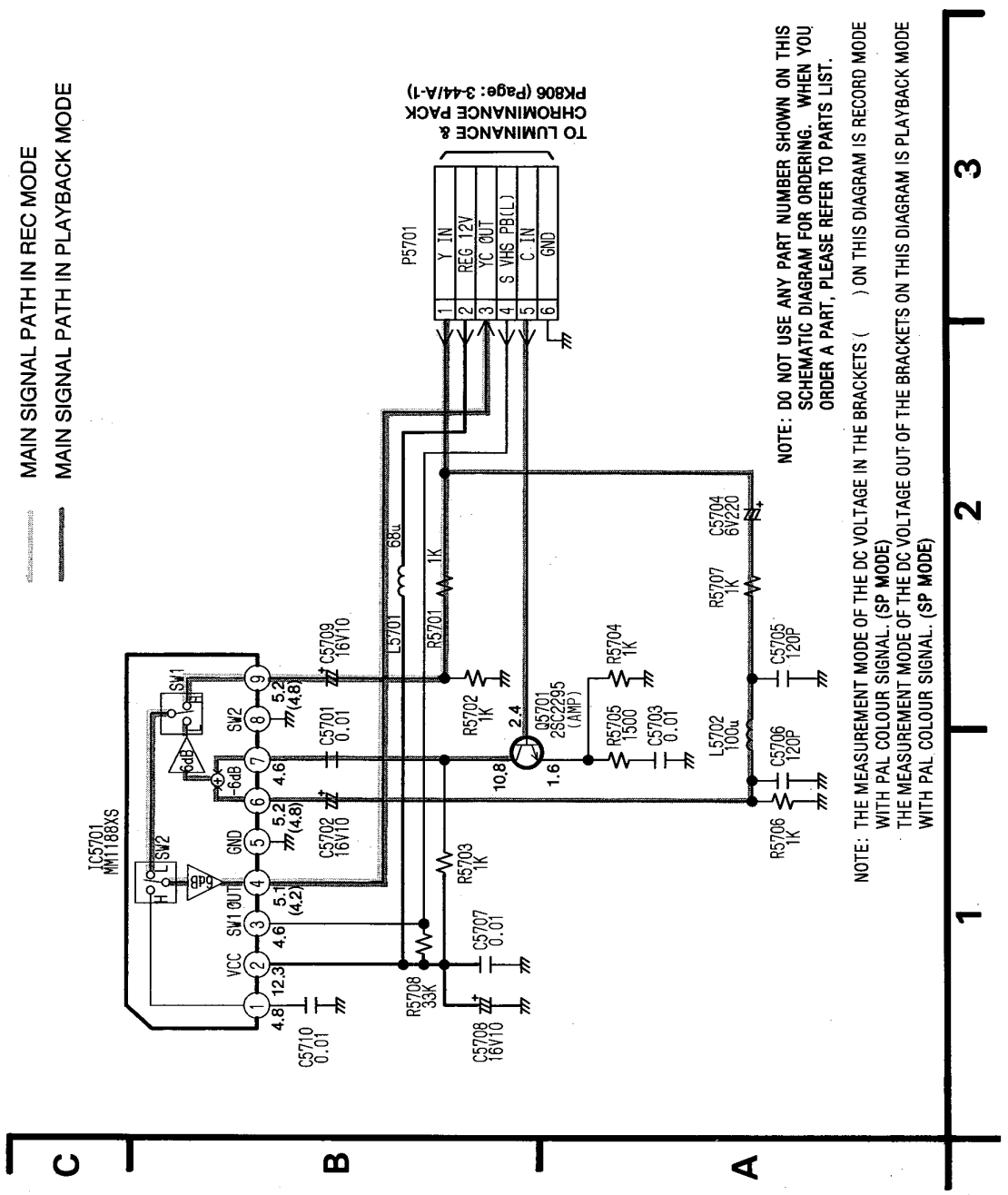
## 3-18. CNR PACK SCHEMATIC DIAGRAM



## 3-19. S-VHS PLAYBACK (1) PACK SCHEMATIC DIAGRAM


MAIN SIGNAL PATH IN PLAYBACK MODE
Q5013 MSC2295 (BUFFER)
Q5012 MSC2295 (BUFFER)
Q5011 MSC2295 (AMP)
Q5010 MSC2295 (BUFFER)
Q5009 MSC2295 (AMP)
Q5008 MSB709 (BUFFER)
Q5007 MSC2295 (BUFFER)
Q5006 MSB709 (S-VHS P.B:ON)
Q5005 XN1501
Q5003 2SA1022 (S-VHS DETECT)
Q5002 MSD601 (S-VHS DETECT)
Q5001 MSB709 (S-VHS DETECT)
(VHS:ON)
(EX.REC ⓗ:ON)
P5001
EX. REC 5V
RF Y IN
GND
S-VHS P.B ⓗ
RF Y OUT
TO LUMINANCE & CHROMINANCE PACK PK805 (Page: 3-44/B-1)
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

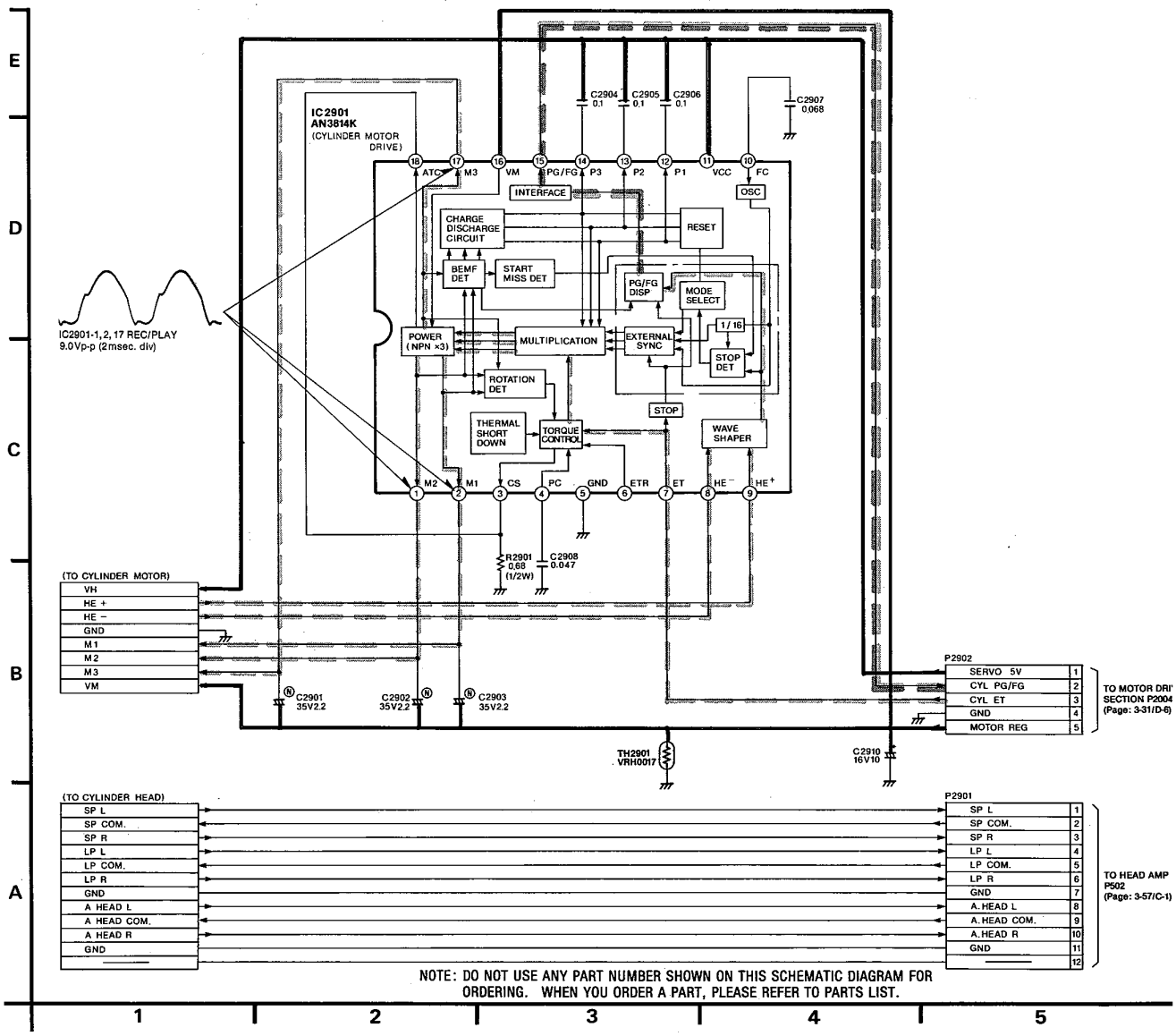
## 3-20. S-VHS PLAYBACK (2) PACK SCHEMATIC DIAGRAM



## 3-21. CYLINDER DRIVE SCHEMATIC DIAGRAM

CYLINDER SERVO SPEED LOOP

CYLINDER SERVO PHASE LOOP



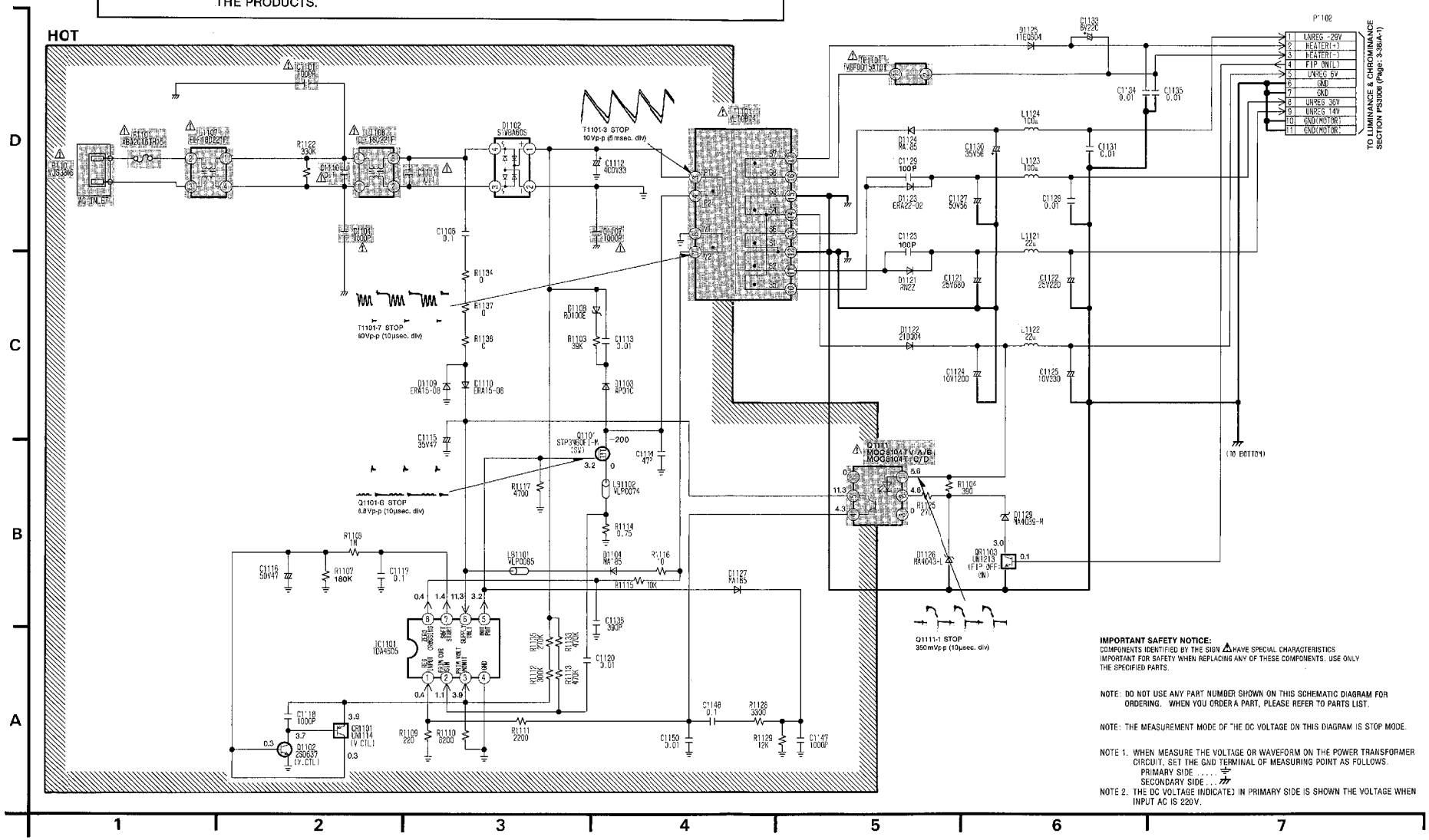

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

### CYLINDER DRIVE ICs DC VOLTAGE CHART (SP MODE)

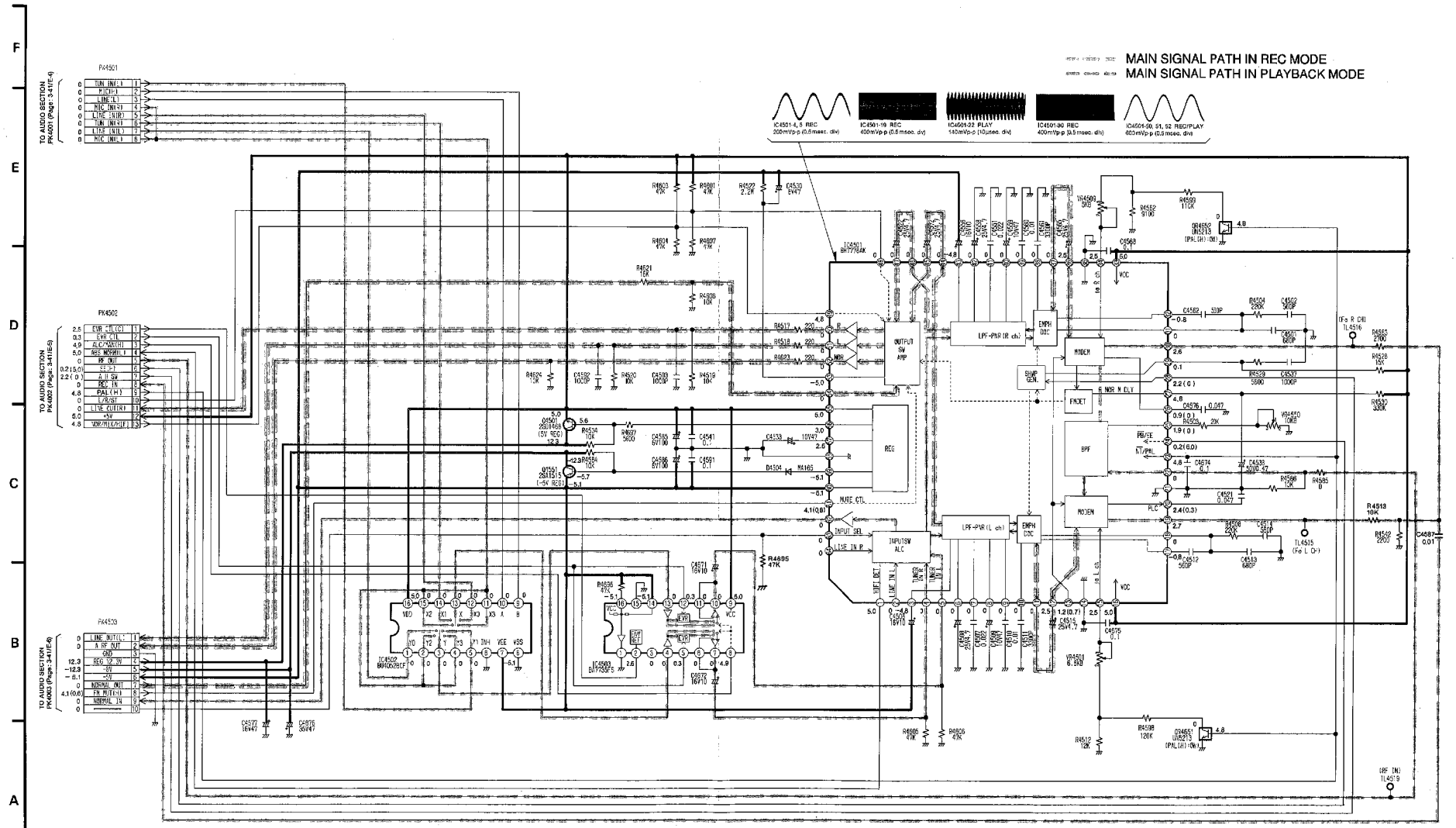
| REF. NO. / MODE | IC2901 | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | | |
| STOP | 13.1 | 13.1 | 0.1 | 0.6 | 0 | 2.5 | 2.4 | 2.6 | 2.5 | 2.5 | 4.9 | 3.7 | 3.6 | 3.7 | 1.3 | 13.8 | 13.3 | 0.1 | | |
| PLAY | 13.8 | 13.8 | 0.2 | 0.6 | 0 | 2.5 | 2.4 | 2.6 | 2.5 | 2.7 | 4.9 | 3.7 | 3.7 | 3.7 | 1.5 | 13.5 | 13.7 | 0.2 | | |
| REC | 13.8 | 13.8 | 0.2 | 0.6 | 0 | 2.5 | 2.4 | 2.6 | 2.5 | 2.7 | 4.9 | 3.7 | 3.7 | 3.7 | 1.5 | 13.5 | 13.7 | 0.2 | | |
| F.F | 13.8 | 13.8 | 0.2 | 0.6 | 0 | 2.5 | 2.4 | 2.6 | 2.5 | 2.7 | 4.9 | 3.7 | 3.7 | 3.7 | 1.5 | 13.5 | 13.7 | 0.2 | | |
| REW | 13.8 | 13.8 | 0.2 | 0.6 | 0 | 2.5 | 2.4 | 2.6 | 2.5 | 2.7 | 4.9 | 3.7 | 3.7 | 3.7 | 1.5 | 13.5 | 13.7 | 0.2 | | |

## 3-22. POWER SCHEMATIC DIAGRAM

**CAUTION** THE RED MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.


HOT
D
C
B
A
1
2
3
4
5
6
7
T1101-3 STOP
10Vp-p (5msec. div)
T1101-7 STOP
80Vp-p (10μsec. div)
Q1101-6 STOP
6.8Vp-p (10μsec. div)
Q1111-1 STOP
350mVp-p (10μsec. div)
TO LUMINANCE & CHROMINANCE SECTION PS5308 (Page: 3-38A-1)
P102
1 UNREG -26V
2 HEATER(+)
3 HEATER(-)
4 FIP ON(L)
5 UNREG 6V
6 GND
7 GND
8 UNREG 36V
9 UNREG 14V
10 GND(MOTOR)
11 GND(MOTOR)
(TO BOTTOM)
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN △ HAVE SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY WHEN REPLACING ANY OF THESE COMPONENTS. USE ONLY THE SPECIFIED PARTS.
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.
NOTE 1. WHEN MEASURE THE VOLTAGE OR WAVEFORM ON THE POWER TRANSFORMER CIRCUIT, SET THE GND TERMINAL OF MEASURING POINT AS FOLLOWS.
PRIMARY SIDE .....
SECONDARY SIDE ...
NOTE 2. THE DC VOLTAGE INDICATED IN PRIMARY SIDE IS SHOWN THE VOLTAGE WHEN INPUT AC IS 220V.

## 3-23 Hi-Fi AUDIO PACK SCHEMATIC DIAGRAM

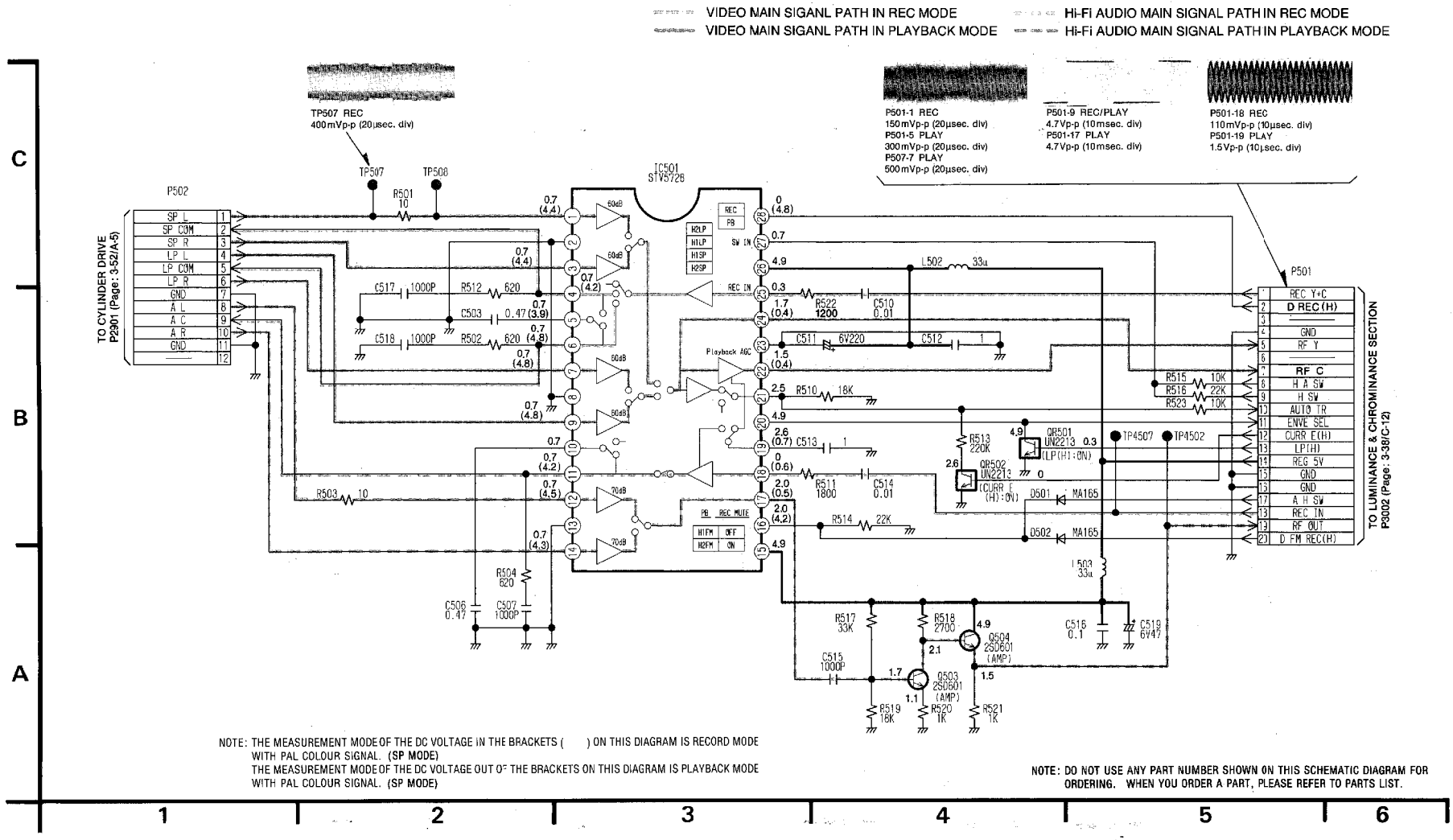



NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

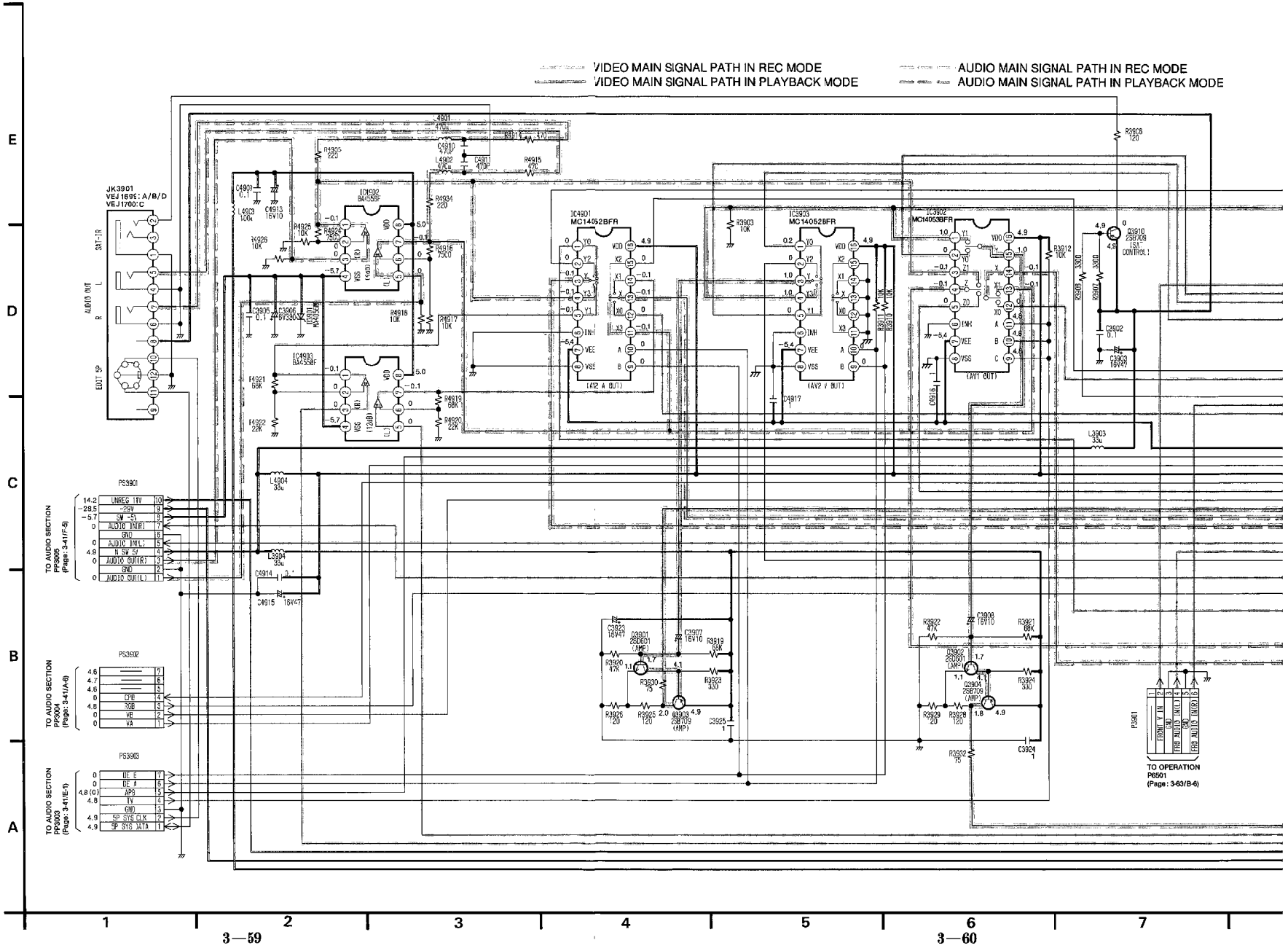
• LINE IN SIGNAL LEVEL.... −10dB 1kHz

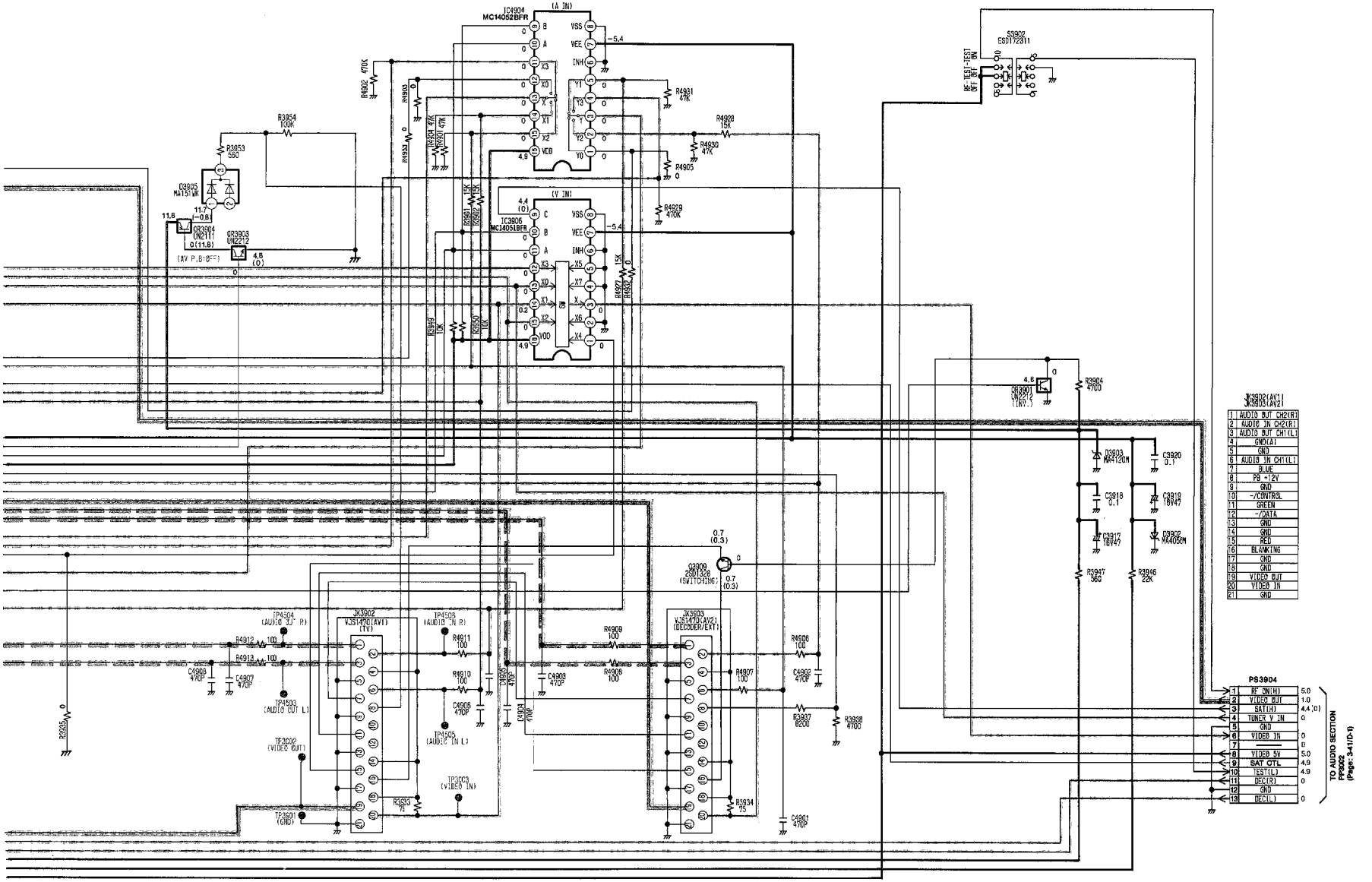
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

## 3-24. HEAD AMP SCHEMATIC DIAGRAM



## 3-25. INPUT/OUTPUT PACK SCHEMATIC DIAGRAM



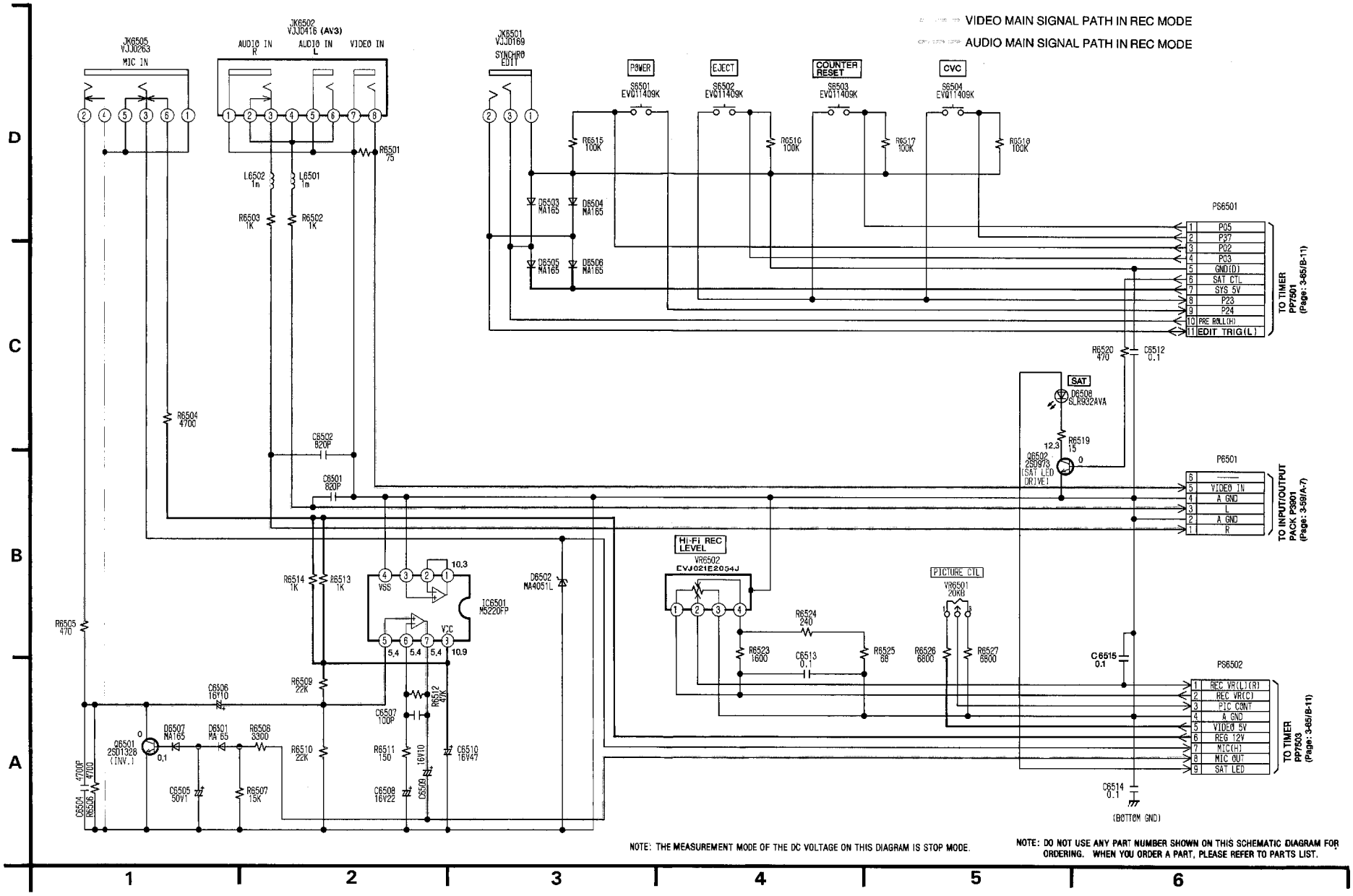



NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE)

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

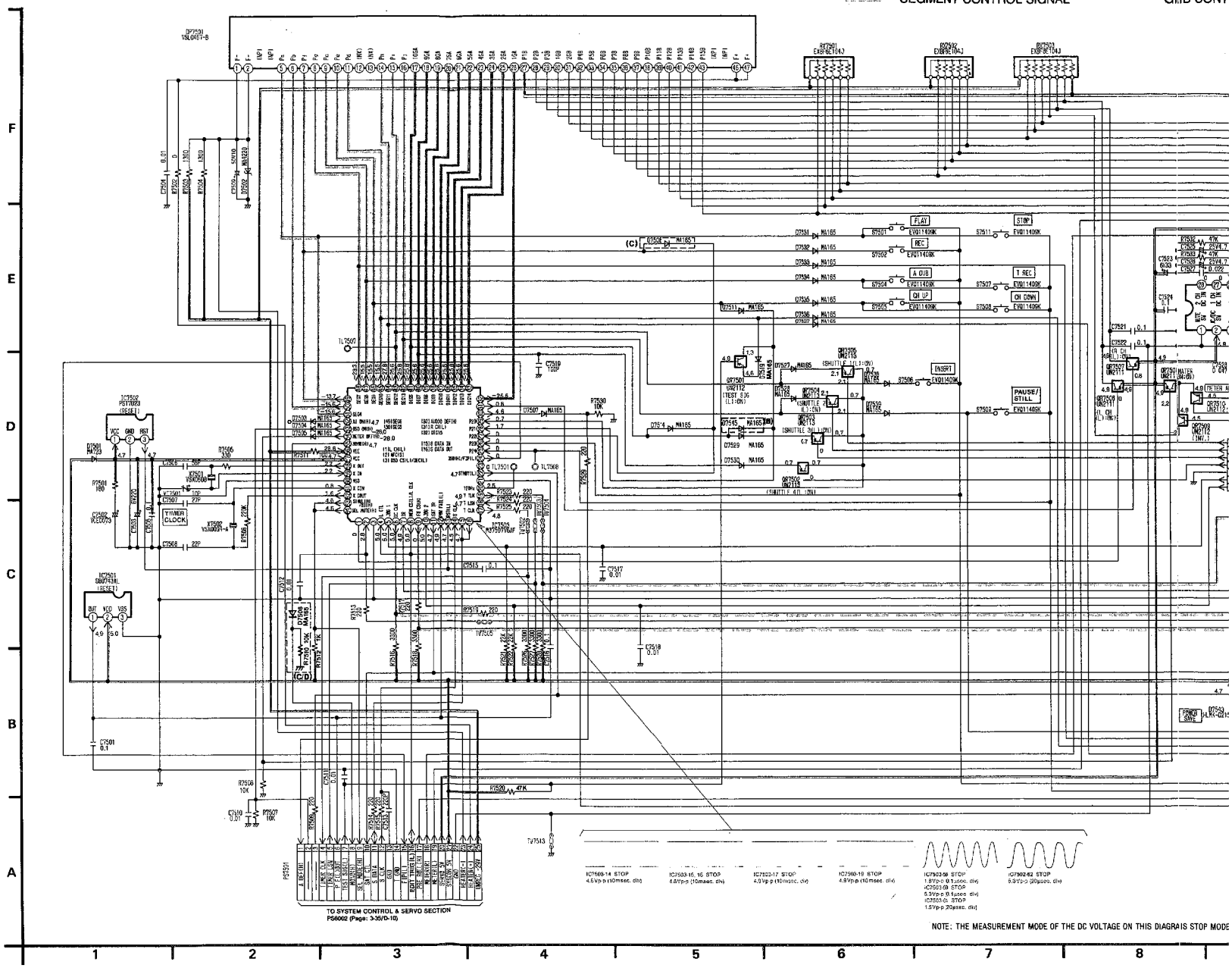
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

## 3-26. OPERATION SCHEMATIC DIAGRAM

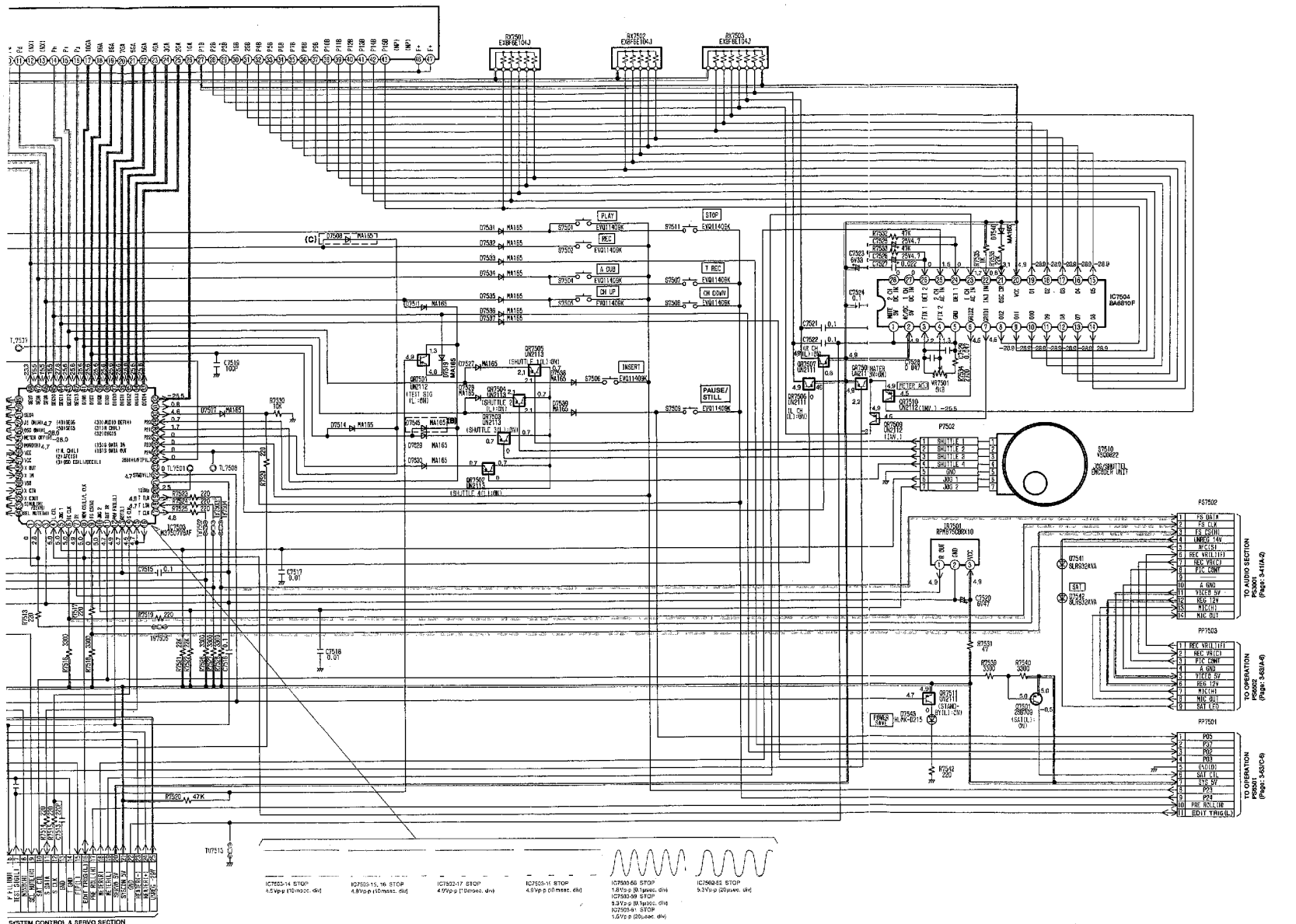


## 3-27. TIMER SCHEMATIC DIAGRAM

SEGMENT CONTROL SIGNAL  GRID CONT



SEGMENT CONTROL SIGNAL  GRID CONTROL SIGNAL  TUNE CONTROL SIGNAL

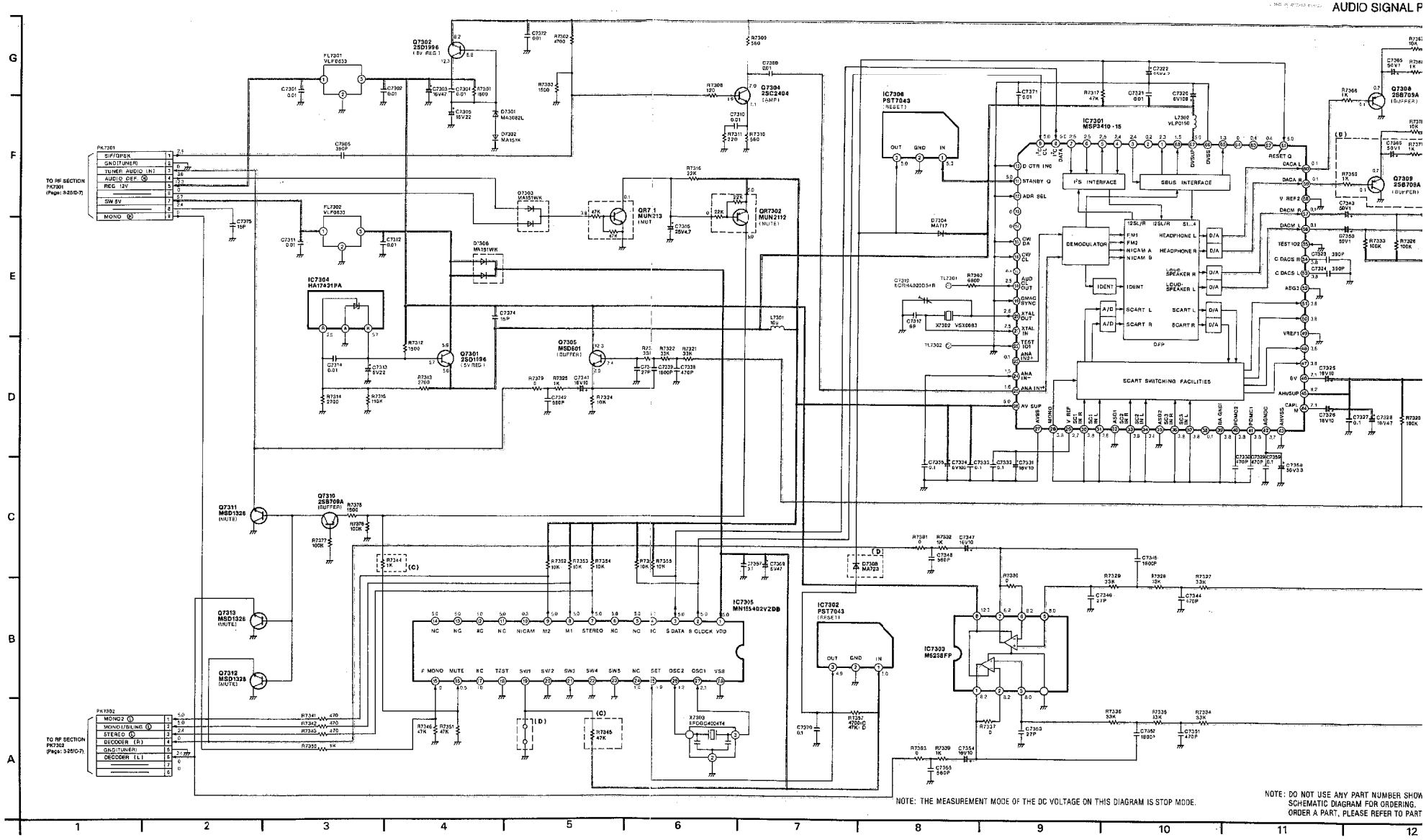



NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

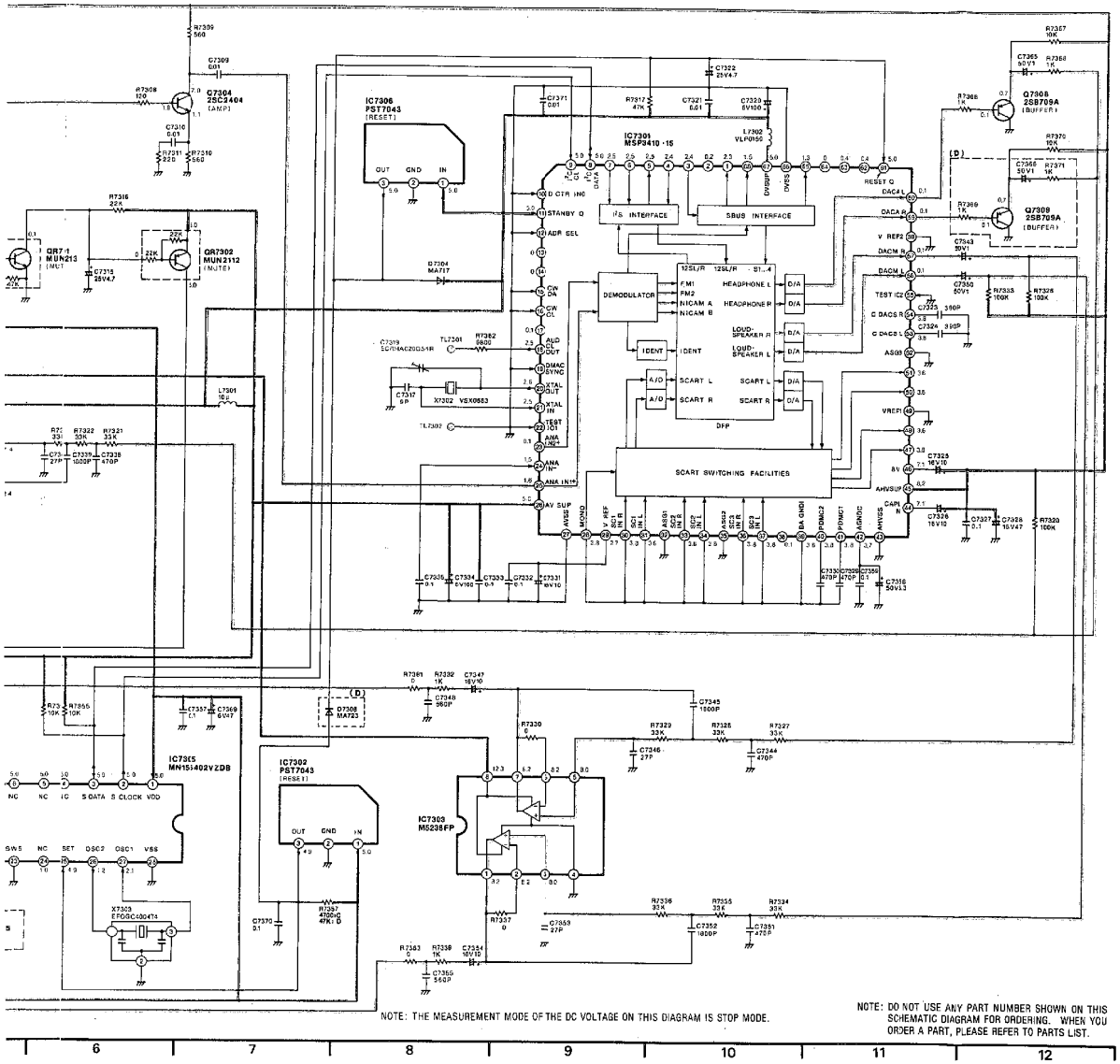
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

3 4 5 6 7 8 9 10 11

## 3-28. NICAM DECODER PACK SCHEMATIC DIAGRAM (NV-HD660B/EC)



## AUDIO SIGNAL PATH




6 7 8 9 10 11 12

TV SYSTEM SELECT

| IC7305 | | TV SYSTEM | SOUND MODULATION |
|---|---|---|---|
| SW1 | SW2 | | |
| L | L | B/G | FM-MONO/NICAM GERMAN MULTIPLEX |
| H | L | I | FM-MONO/NICAM |
| * | H | M | FM-MONO |

*: DO NOT CARE

FM-MONO MODE SELECT

| IC7305 SW3 | FM-MONO MODE | FM-MONO SOURCE |
|---|---|---|
| L | INT | SIF (IF INPUT1, IF INPUT2) |
| H | EXT | AUDIO MULTI (MONO IN) |

SIF INPUT SELECT

| IC7305 SW4 | SIF INPUT |
|---|---|
| L | IF INPUT 1 |
| H | IF INPUT 2 |

AUDIO OUTPUT SELECT

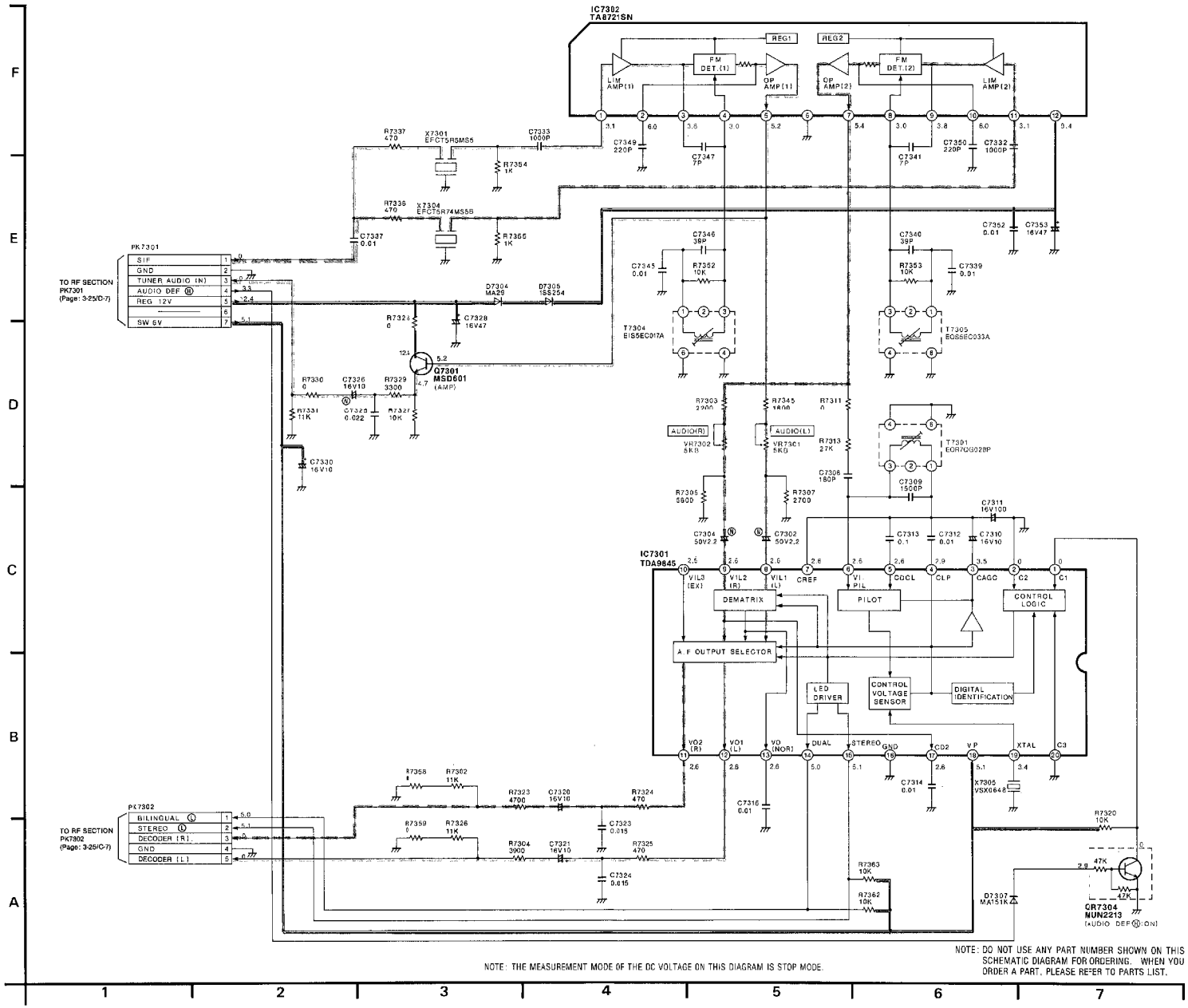
| INPUT TV SYSTEM | SOUND MODULATION | FM-MONO MODE | MAIN OUTPUT | | SUB OUTPUT | |
|---|---|---|---|---|---|---|
| | | | INPUT SOURCE | MATRIX | INPUT SOURCE | MATRIX |
| B/G | MONO | INT | IF INPUT 1/2 (FM) | MONAURAL | IF INPUT 1/2 (FM) | MONAURAL |
| | | EXT | MONO IN | MONAURAL | MONO IN | MONAURAL |
| | NICAM STEREO | INT | IF INPUT 1/2 (NICAM) | STEREO | IF INPUT 1/2 (FM) | MONAURAL |
| | | EXT | IF INPUT 1/2 (NICAM) | STEREO | MONO IN | MONAURAL |
| | NICAM M1/DATA | INT | IF INPUT 1/2 (NICAM) | MONAURAL | IF INPUT 1/2 (FM) | MONAURAL |
| | | EXT | IF INPUT 1/2 (NICAM) | MONAURAL | MONO IN | MONAURAL |
| | NICAM M1/M2 | INT | IF INPUT 1/2 (NICAM) | STEREO | IF INPUT 1/2 (FM) | MONAURAL |
| | | EXT | IF INPUT 1/2 (NICAM) | STEREO | MONO IN | MONAURAL |
| | NICAM DATA | INT | IF INPUT 1/2 (FM) | MONAURAL | IF INPUT 1/2 (FM) | MONAURAL |
| | | EXT | MONO IN | MONAURAL | MONO IN | MONAURAL |
| | STEREO | INT | IF INPUT 1/2 (FM) | STEREO | IF INPUT 1/2 (FM) | MONAURAL |
| | BILINGUAL | INT | IF INPUT 1/2 (FM) | STEREO | IF INPUT 1/2 (FM) | MONAURAL |
| I | MONO | INT | IF INPUT 1/2 (FM) | MONAURAL | IF INPUT 1/2 (FM) | MONAURAL |
| | | EXT | MONO IN | MONAURAL | MONO IN | MONAURAL |
| | NICAM STEREO | INT | IF INPUT 1/2 (NICAM) | STEREO | IF INPUT 1/2 (FM) | MONAURAL |
| | | EXT | IF INPUT 1/2 (NICAM) | STEREO | MONO IN | MONAURAL |
| | NICAM M1/DATA | INT | IF INPUT 1/2 (NICAM) | MONAURAL | IF INPUT 1/2 (FM) | MONAURAL |
| | | EXT | IF INPUT 1/2 (NICAM) | MONAURAL | MONO IN | MONAURAL |
| | NICAM M1/M2 | INT | IF INPUT 1/2 (NICAM) | STEREO | IF INPUT 1/2 (FM) | MONAURAL |
| | | EXT | IF INPUT 1/2 (NICAM) | STEREO | MONO IN | MONAURAL |
| | NICAM DATA | INT | IF IMPUT 1/2 (FM) | MONAURAL | IF INPUT 1/2 (FM) | MONAURAL |
| | | EXT | MONO IN | MONAURAL | MONO IN | MONAURAL |
| M | MONO | INT | IFINPUT 1/2 (FM) | MONAURAL | IF INPUT 1/2 (FM) | MONAURAL |

Note: When the IC7305-15 (F MONO) is high, both the MAIN OUTPUT and the SUB OUTPUT apply the FM-MONO audio.

## 3-29. DECODER PACK SCHEMATIC DIAGRAM (NV-HD660EG/EGH)

AUDIO MAIN SIGNAL PATH

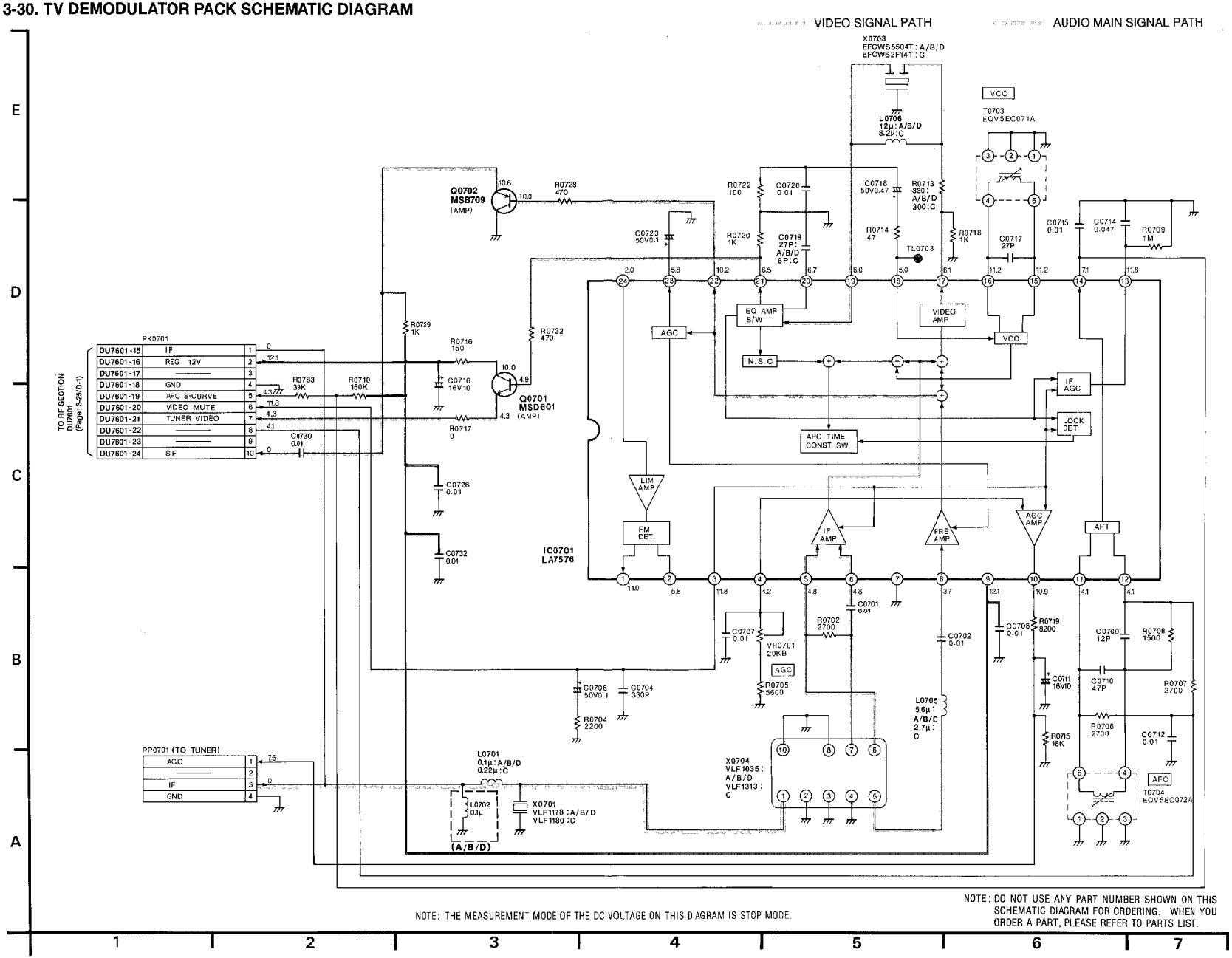
AUDIO SUB SIGNAL PATH




NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

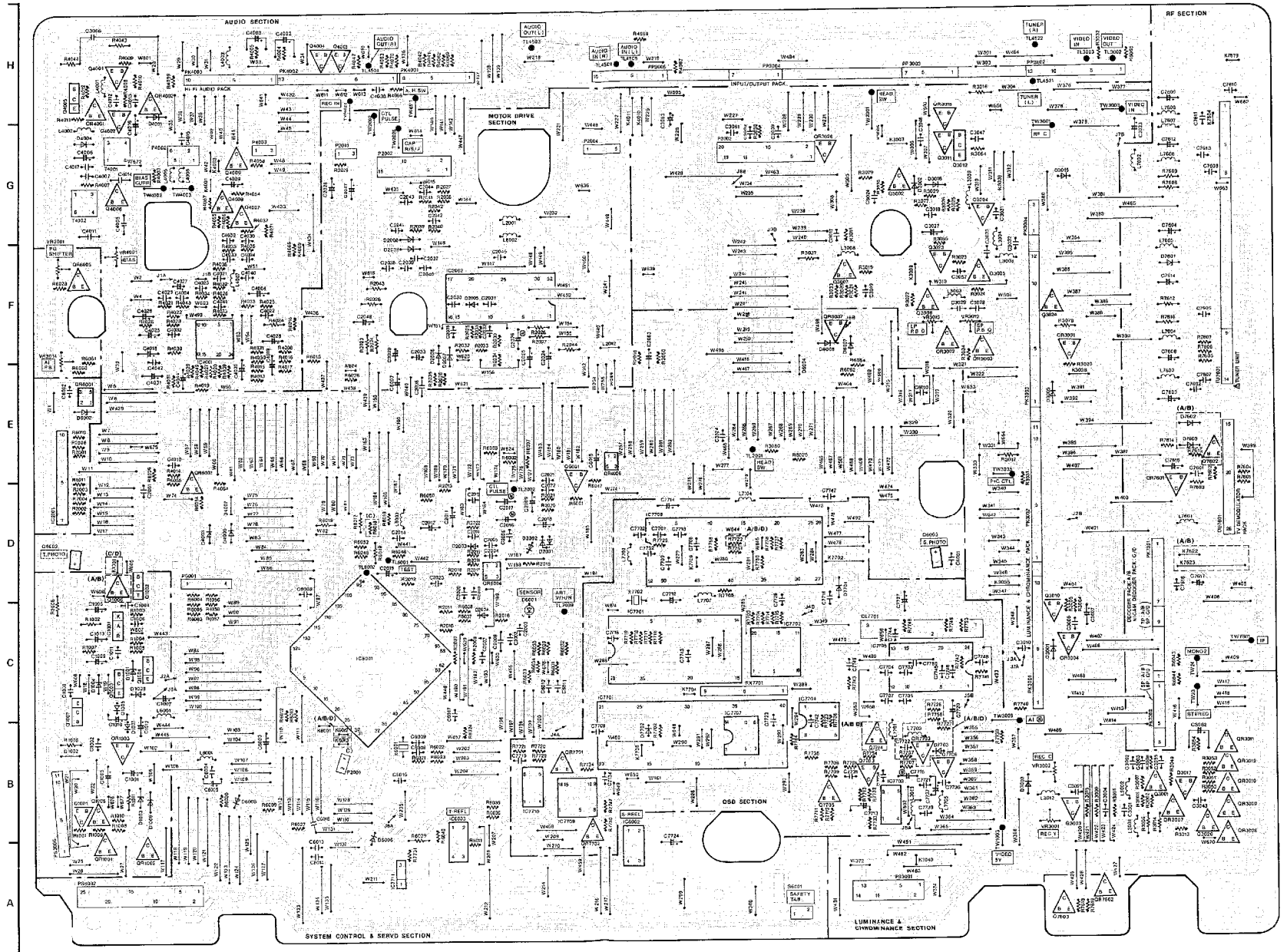
## 3-30. TV DEMODULATOR PACK SCHEMATIC DIAGRAM

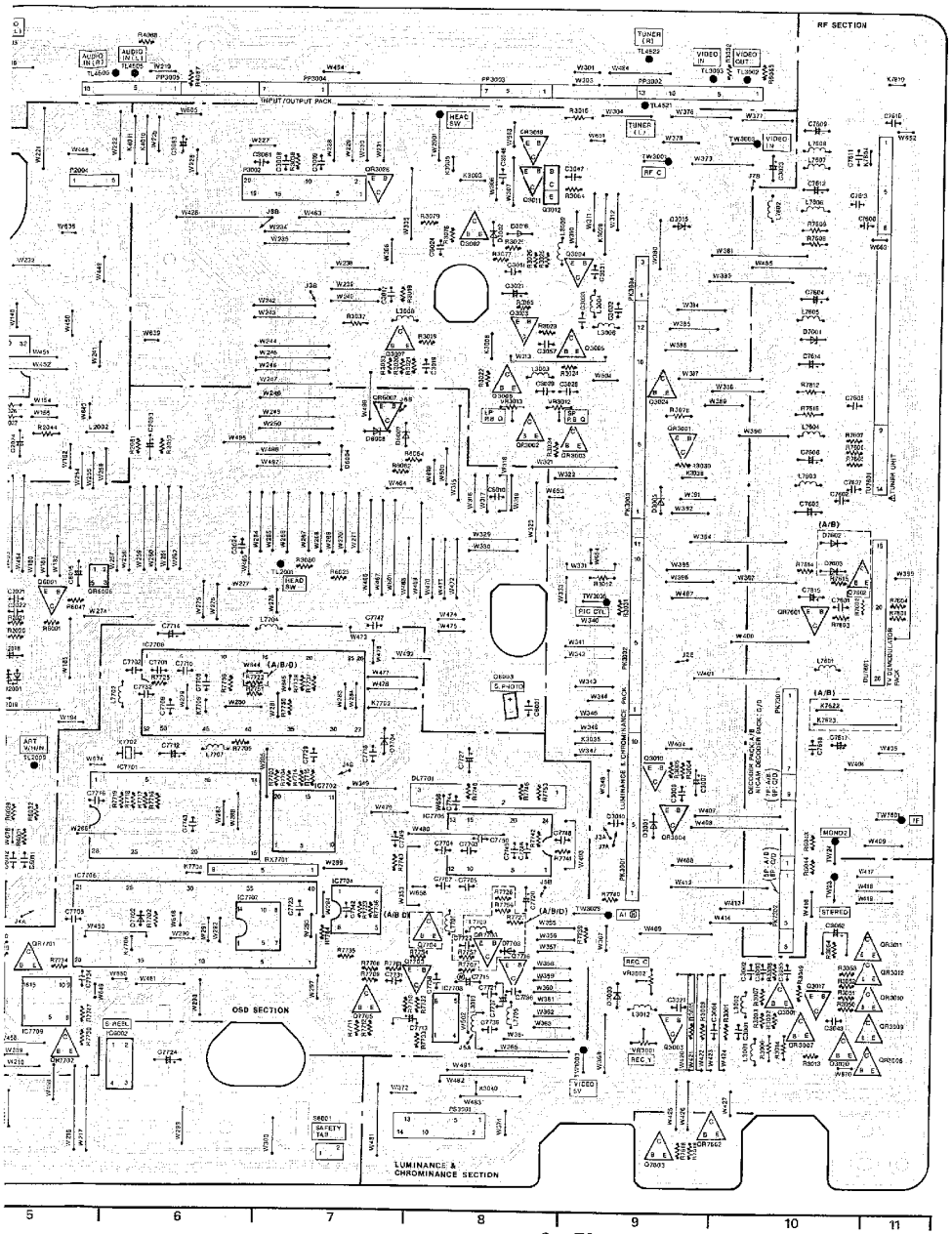



NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

## 3-31 MAIN C.B.A. (VEP06B36D: NV-HD660EG/EGH) (VEP06B36K: NV-HD660B) (VEP06B36L: NV-HD660EC)





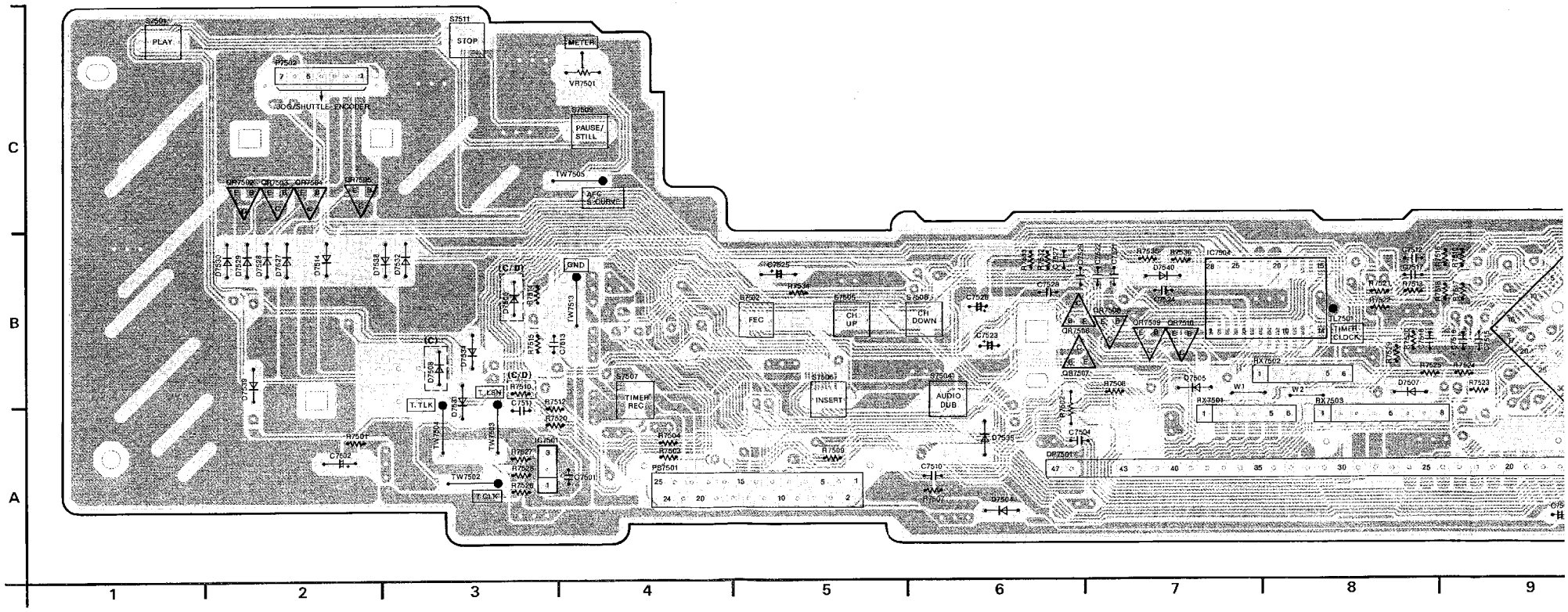



**MAIN C.B.A.**

| Transistor | | | | | |
|---|---|---|---|---|---|
| Q1001 | B-1 | QR3010 | B-11 | TW23 | C-10 |
| Q1002 | C-2 | QR3011 | B-11 | TW24 | C-10 |
| Q1003 | C-1 | QR3012 | B-11 | TW1003 | A-9 |
| Q1004 | C-1 | QR3018 | H-8 | TW2001 | G-8 |
| Q1005 | B-1 | QR3026 | G-7 | TW2002 | G-3 |
| Q1006 | D-1 | QR4001 | H-1 | TW2026 | G-4 |
| Q1007 | C-1 | QR4002 | H-2 | TW3001 | G-9 |
| Q3001 | B-10 | QR6001 | E-1 | TW3003 | H-10 |
| Q3002 | G-8 | QR6002 | E-2 | TW3026 | B-9 |
| Q3003 | B-9 | QR6004 | D-4 | TW3035 | E-9 |
| Q3004 | G-9 | QR6005 | F-1 | TW4002 | G-2 |
| Q3005 | F-8 | QR6006 | E-6 | TW4003 | G-2 |
| Q3006 | F-8 | QR6007 | F-7 | TW4028 | H-3 |
| Q3007 | F-7 | QR7601 | D-10 | TW4511 | H-4 |
| Q3010 | C-9 | QR7602 | A-9 | TW7601 | C-11 |
| Q3011 | G-8 | QR7701 | B-5 | **Adjustment** | |
| Q3012 | G-8 | QR7702 | A-5 | VR2001 | F-1 |
| Q3017 | B-10 | QR7703 | B-8 | VR3001 | B-9 |
| Q3020 | B-10 | **Integrated Circuit** | | VR3002 | B-9 |
| Q3023 | F-8 | IC1001 | C-1 | VR3012 | F-8 |
| Q3024 | F-9 | IC2001 | D-1 | VR3013 | F-8 |
| Q4001 | H-1 | IC2002 | F-4 | VR3014 | F-1 |
| Q4002 | G-1 | IC4001 | F-2 | VR4001 | F-1 |
| Q4003 | H-3 | IC6001 | C-3 | **Connector** | |
| Q4004 | H-3 | IC6002 | B-6 | DU7601 | D-11 |
| Q4005 | H-1 | IC6003 | B-4 | P2001 | B-3 |
| Q4006 | G-1 | IC7701 | C-6 | P2002 | G-4 |
| Q4007 | G-2 | IC7702 | C-7 | P2003 | G-3 |
| Q4008 | G-2 | IC7703 | B-8 | P2004 | G-5 |
| Q4009 | G-2 | IC7704 | C-7 | P3002 | G-6 |
| Q6001 | E-5 | IC7705 | C-8 | P4002 | G-2 |
| Q6002 | D-1 | IC7706 | C-5 | P4003 | G-2 |
| Q6003 | D-6 | IC7707 | C-6 | P6001 | D-2 |
| Q7602 | E-10 | IC7708 | D-6 | PK3001 | C-9 |
| Q7603 | A-9 | IC7709 | B-5 | PK3002 | D-9 |
| Q7703 | B-8 | IC7710 | B-5 | PK3003 | E-9 |
| Q7704 | B-8 | IC7711 | A-4 | PK3004 | G-9 |
| Q7705 | B-7 | **Test Point** | | PK4001 | H-4 |
| Q7706 | B-8 | TL2001 | E-7 | PK4002 | H-3 |
| **Transistor & Resistor** | | TL2002 | D-5 | PK4003 | H-2 |
| QR1001 | A-1 | TL2009 | C-5 | PK7301 | D-10 |
| QR1002 | A-2 | TL3002 | H-10 | PK7302 | B-10 |
| QR1003 | B-1 | TL3003 | H-9 | PP3002 | H-9 |
| QR3001 | F-9 | TL4503 | H-5 | PP3003 | H-8 |
| QR3002 | F-8 | TL4504 | H-3 | PP3004 | H-7 |
| QR3003 | E-9 | TL4505 | H-6 | PP3005 | H-6 |
| QR3004 | C-9 | TL4506 | H-5 | PS3001 | A-8 |
| QR3007 | B-10 | TL4521 | H-9 | PS3008 | A-1 |
| QR3008 | A-11 | TL4522 | H-9 | PS6002 | A-1 |
| QR3009 | B-11 | TL6001 | D-4 | TU7601 | E-11 |
| | | TL6002 | D-3 | | |

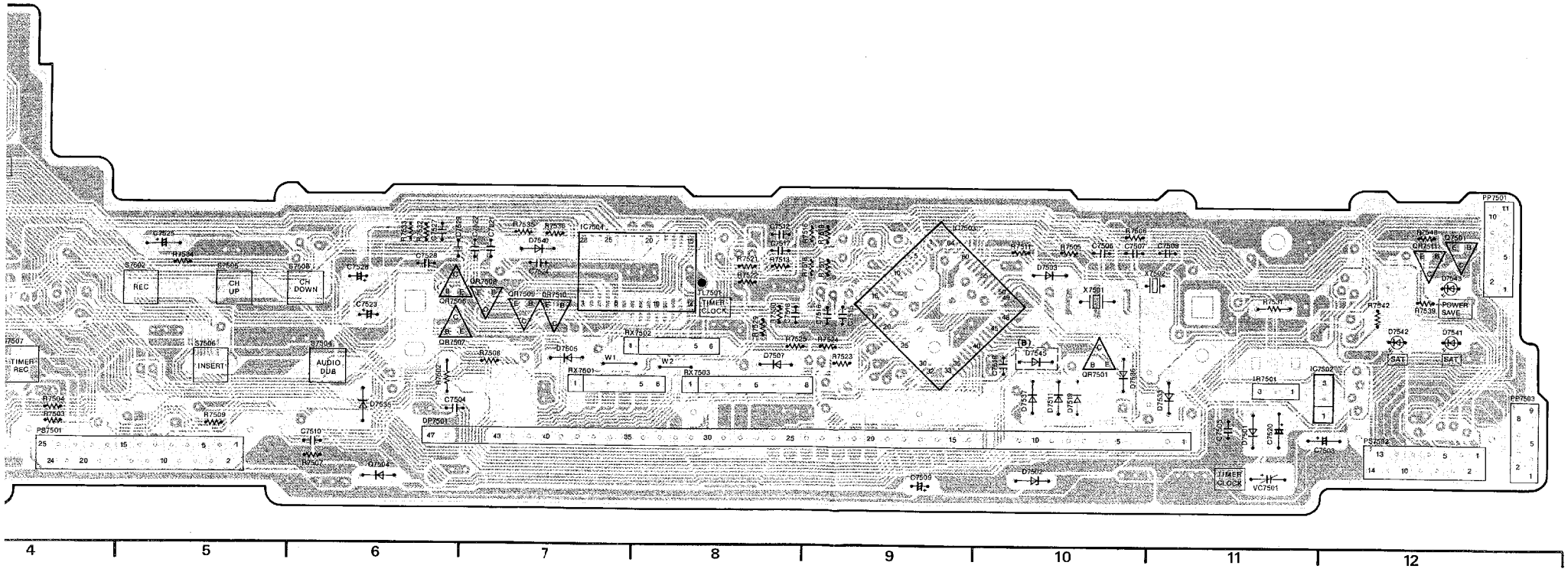
ADDRESS INFORMATION

## 3-32. TIMER C.B.A. (VEP07935A: NV-HD660EG) (VEP07935C: NV-HD660EGH) (VEP07935D: NV-HD660B) (VEP07935E: NV-HD660EC)



| TIMER C.B.A. | | | | | |
|---|---|---|---|---|---|
| **Transistor** | | **Integrated Circuit** | | **Adjustment** | |
| Q7501 | B-12 | IC7501 | A-3 | VC7501 | A-11 |
| **Transistor & Resistor** | | IC7502 | A-12 | VR7501 | C-4 |
| QR7501 | B-10 | IC7503 | B-9 | **Connector** | |
| QR7502 | C-2 | IC7504 | B-7 | P7502 | C-2 |
| QR7503 | C-2 | **Test Point** | | PP7501 | B-12 |
| QR7504 | C-2 | TL7501 | B-6 | PP7503 | A-12 |
| QR7505 | C-2 | TW7502 | A-3 | PS7501 | A-4 |
| QR7506 | B-6 | TW7503 | A-3 | PS7502 | A-12 |
| QR7507 | B-6 | TW7504 | A-3 | | |
| QR7508 | B-7 | TW7505 | C-4 | | |
| QR7509 | B-7 | TW7513 | B-4 | | |
| QR7510 | B-7 | | | | |
| QR7511 | B-12 | | | | |

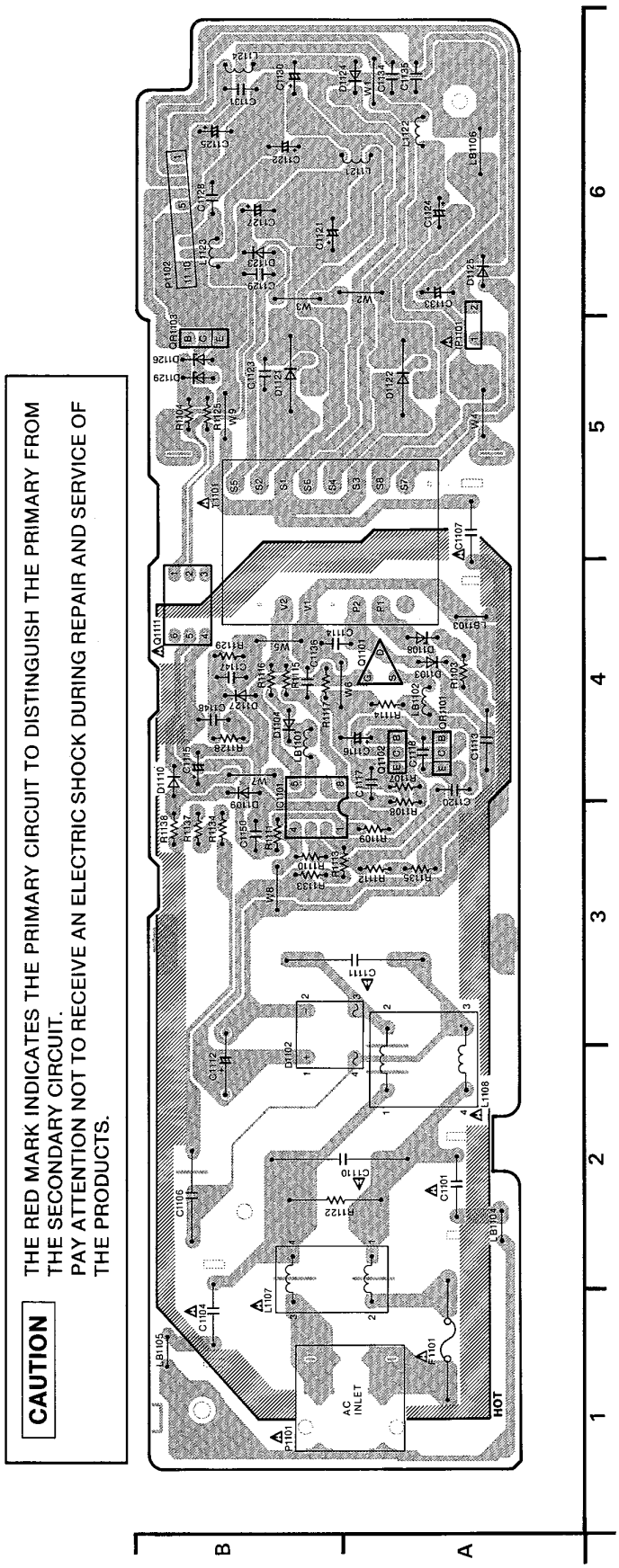
ADDRESS INFORMATION



## 3-33. POWER C.B.A. (VEP01763A: NV-HD660EG/EGH) (VEP01763B: NV-HD660B/EC)

| POWER C.B.A. | |
|---|---|
| **Transistor** | |
| Q1101 | A-4 |
| Q1102 | A-4 |
| Q1111 | B-4 |
| **Transistor & Resistor** | |
| QR1101 | A-4 |
| QR1103 | B-5 |
| **Integrated Circuit** | |
| IC1101 | B-3 |
| **Connector** | |
| P1101 | B-1 |
| P1102 | B-6 |

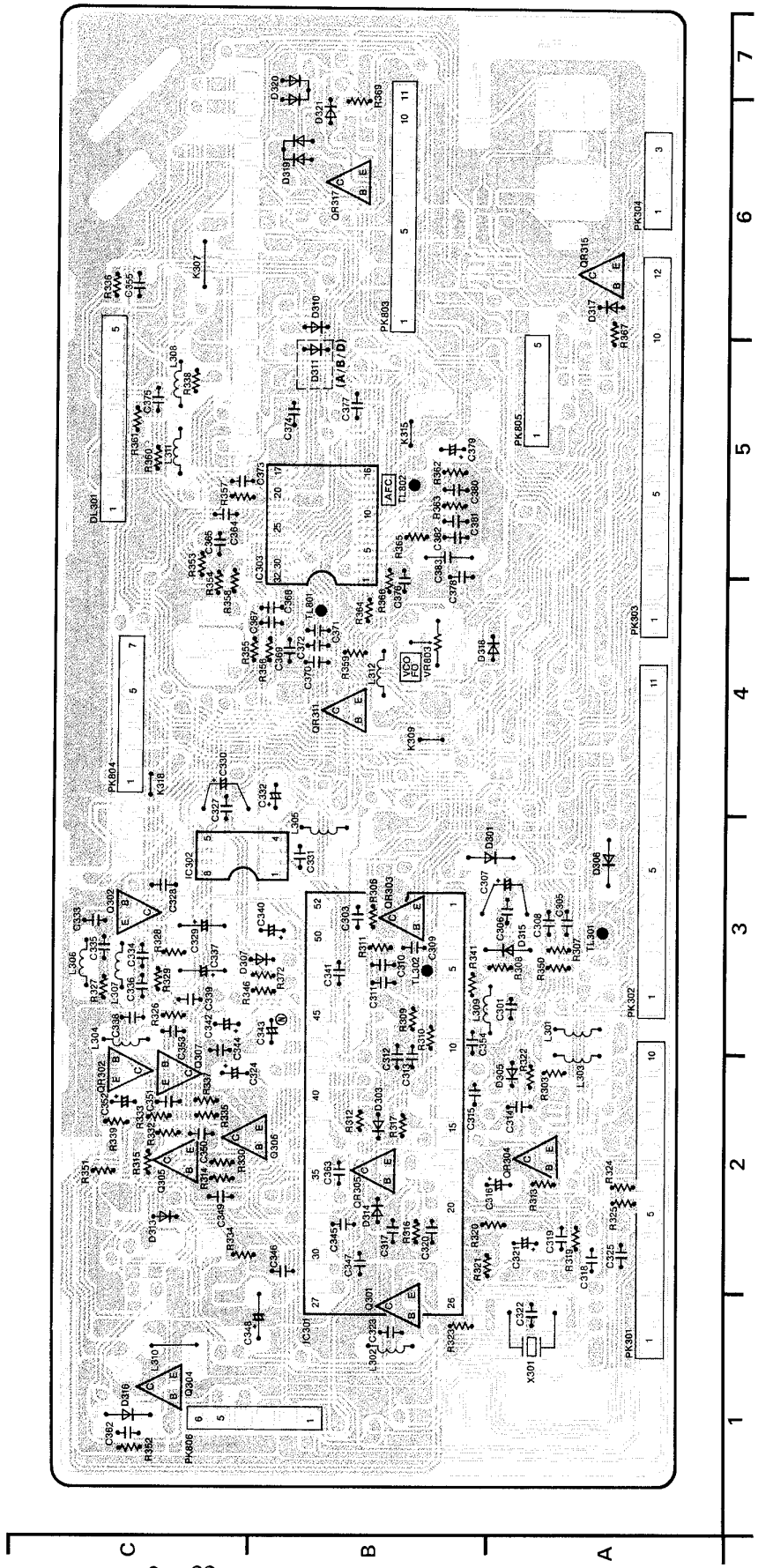
ADDRESS INFORMATION



## 3-34. LUMINANCE & CHROMINANCE PACK C.B.A. (VEP03D32C: NV-HD660EG/EGH/EC) (VEP03D32H: NV-HD660B)

| LUMINANCE & CHROMINANCE PACK C.B.A. | | | | | |
|---|---|---|---|---|---|
| **Transistor** | | QR315 | A-6 | **Adjustment** | |
| | | QR317 | B-6 | | |
| | | | | VR803 | B-4 |
| Q301 | B-1 | **Integrated Circuit** | | **Connector** | |
| Q302 | C-3 | | | | |
| Q304 | C-1 | | | | |
| Q305 | C-2 | IC301 | B-1 | PK301 | A-1 |
| Q306 | B-2 | IC302 | C-3 | PK302 | A-3 |
| Q307 | C-2 | IC303 | B-5 | PK303 | A-4 |
| | | | | PK304 | A-6 |
| **Transistor & Resistor** | | **Test Point** | | PK803 | B-6 |
| QR302 | C-2 | | | PK804 | C-4 |
| QR303 | B-3 | TL301 | A-3 | PK805 | A-5 |
| QR304 | A-2 | TL302 | B-3 | PK806 | C-1 |
| QR305 | B-2 | TL801 | B-4 | | |
| QR311 | B-4 | TL802 | B-5 | | |

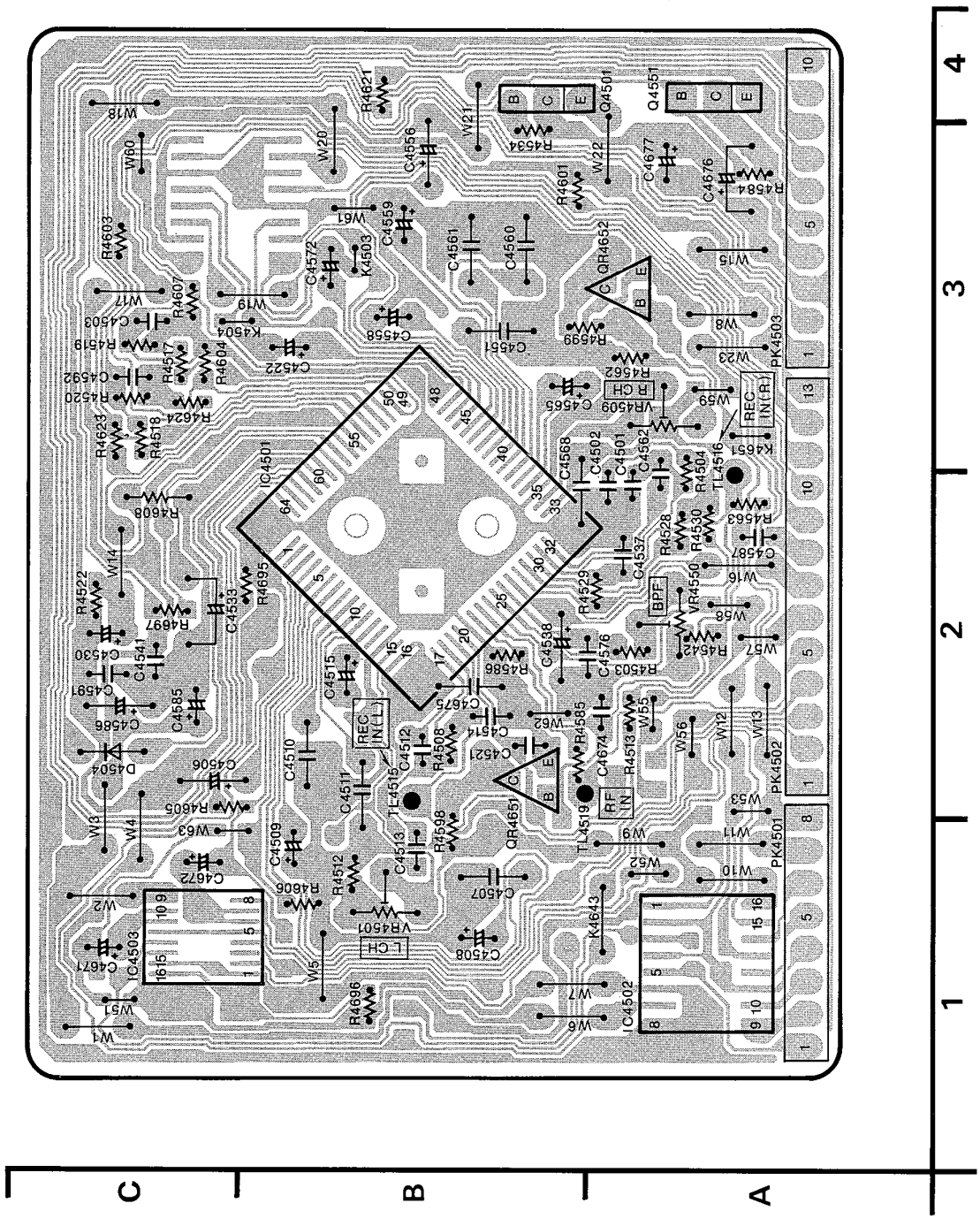
ADDRESS INFORMATION



## 3-39 Hi-Fi AUDIO PACK C B A (VEP04644C)

| Hi-Fi AUDIO PACK C.B.A. | |
|---|---|
| **Transistor** | |
| Q4501 | B-4 |
| Q4551 | A-4 |
| **Transistor & Resistor** | |
| QR4561 | B-2 |
| QR4652 | A-3 |
| **Integrated Circuit** | |
| IC4501 | B-2 |
| IC4502 | A-1 |
| IC4503 | C-1 |
| **Test Point** | |
| TL4515 | B-2 |
| TL4516 | A-2 |
| TL4519 | B-2 |
| **Adjustment** | |
| VR4501 | B-1 |
| VR4509 | A-3 |
| VR4550 | A-2 |
| **Connector** | |
| PK4501 | A-1 |
| PK4502 | A-2 |
| PK4503 | A-3 |

ADDRESS INFORMATION

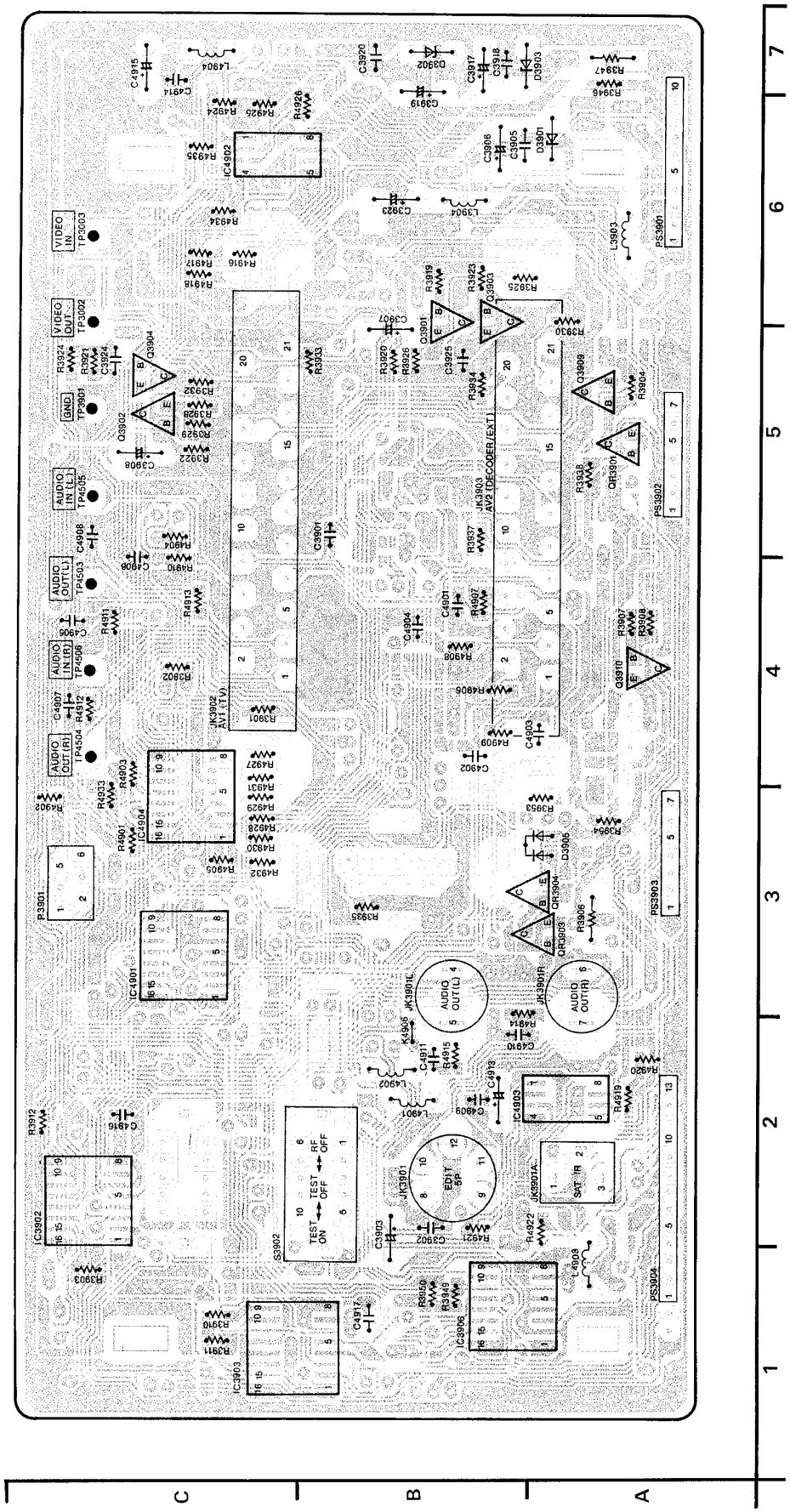


## 3-40. INPUT/OUTPUT PACK C.B.A. (VEP03D34C: NV-HD660EG/EGH/EC) (VEP03D34D: NV-HD660B)

**INPUT/OUTPUT PACK C.B.A.**

| Transistor | | Transistor & Resistor | | IC4901 | C-3 | TP4504 | C-4 |
|---|---|---|---|---|---|---|---|
| Q3901 | B-5 | QR3901 | A-5 | IC4902 | C-6 | TP4505 | C-5 |
| Q3902 | C-5 | QR3903 | A-3 | IC4903 | A-2 | TP4506 | C-4 |
| Q3903 | B-6 | QR3904 | A-3 | IC4904 | C-3 | **Connector** | |
| Q3904 | C-5 | **Integrated Circuit** | | **Test Point** | | P3901 | C-3 |
| Q3909 | A-5 | IC3902 | C-2 | TP3002 | C-5 | PS3901 | A-6 |
| Q3910 | A-4 | IC3903 | C-1 | TP3003 | C-6 | PS3902 | A-5 |
| | | IC3906 | B-1 | TP3901 | C-5 | PS3903 | A-3 |
| | | | | TP4503 | C-4 | PS3904 | A-1 |

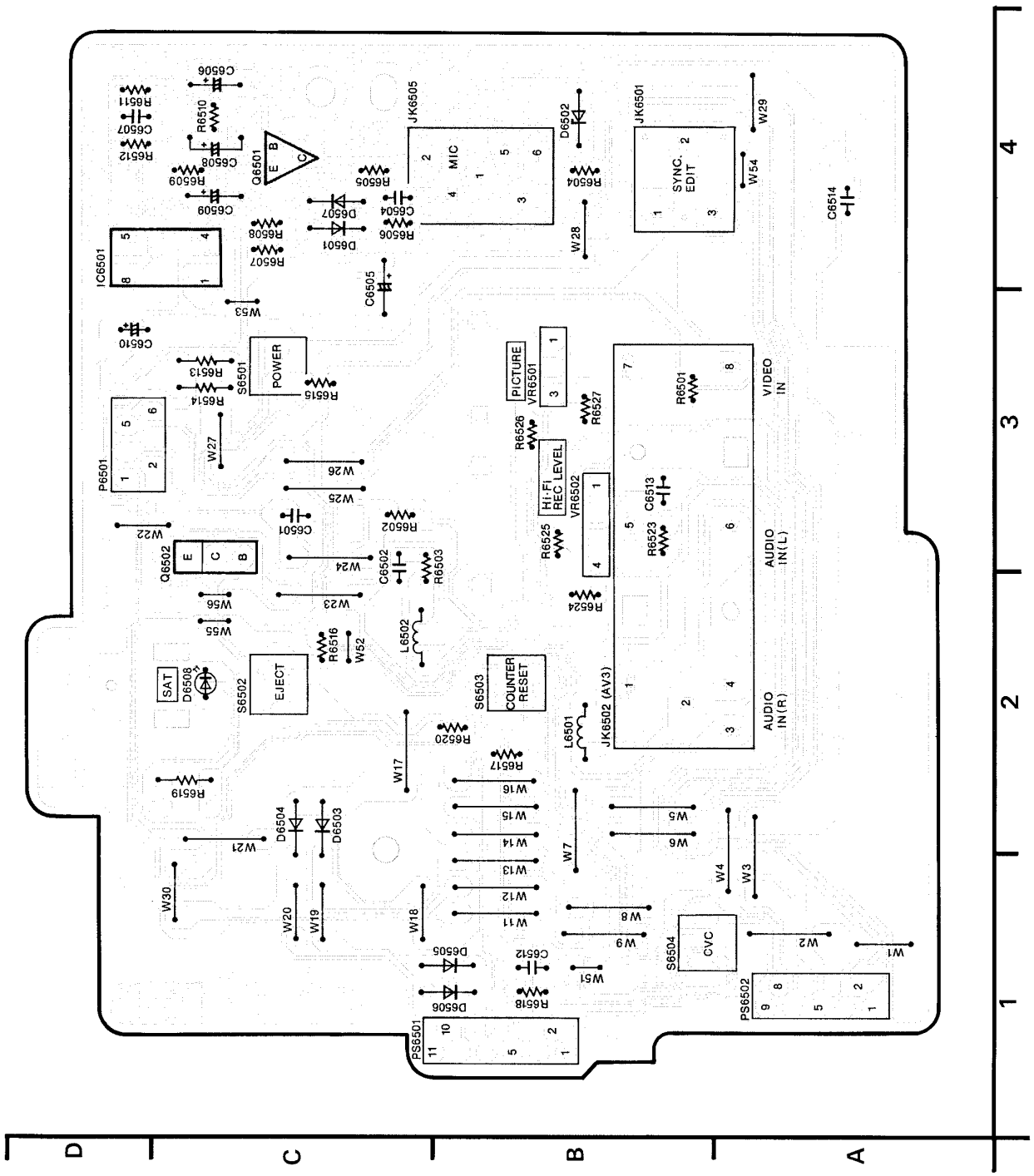
ADDRESS INFORMATION



## 3-41. OPERATION C.B.A. (VEP06B38B)

| OPERATION C.B.A. | |
|---|---|
| **Transistor** | |
| Q6501 | C-4 |
| Q6502 | C-3 |
| **Integrated Circuit** | |
| IC6501 | D-4 |
| **Adjustment** | |
| VR6501 | B-3 |
| VR6502 | B-3 |
| **Connector** | |
| P6501 | D-3 |
| PS6501 | B-1 |
| PS6502 | A-1 |

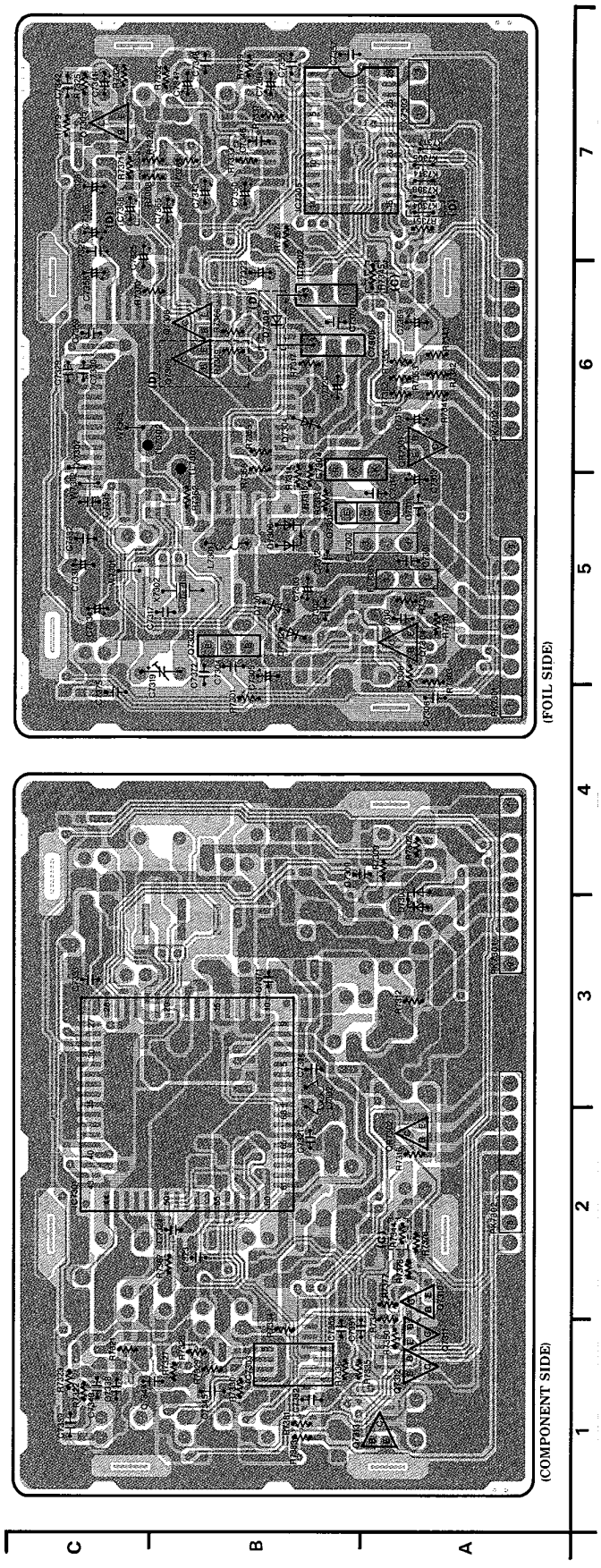
ADDRESS INFORMATION



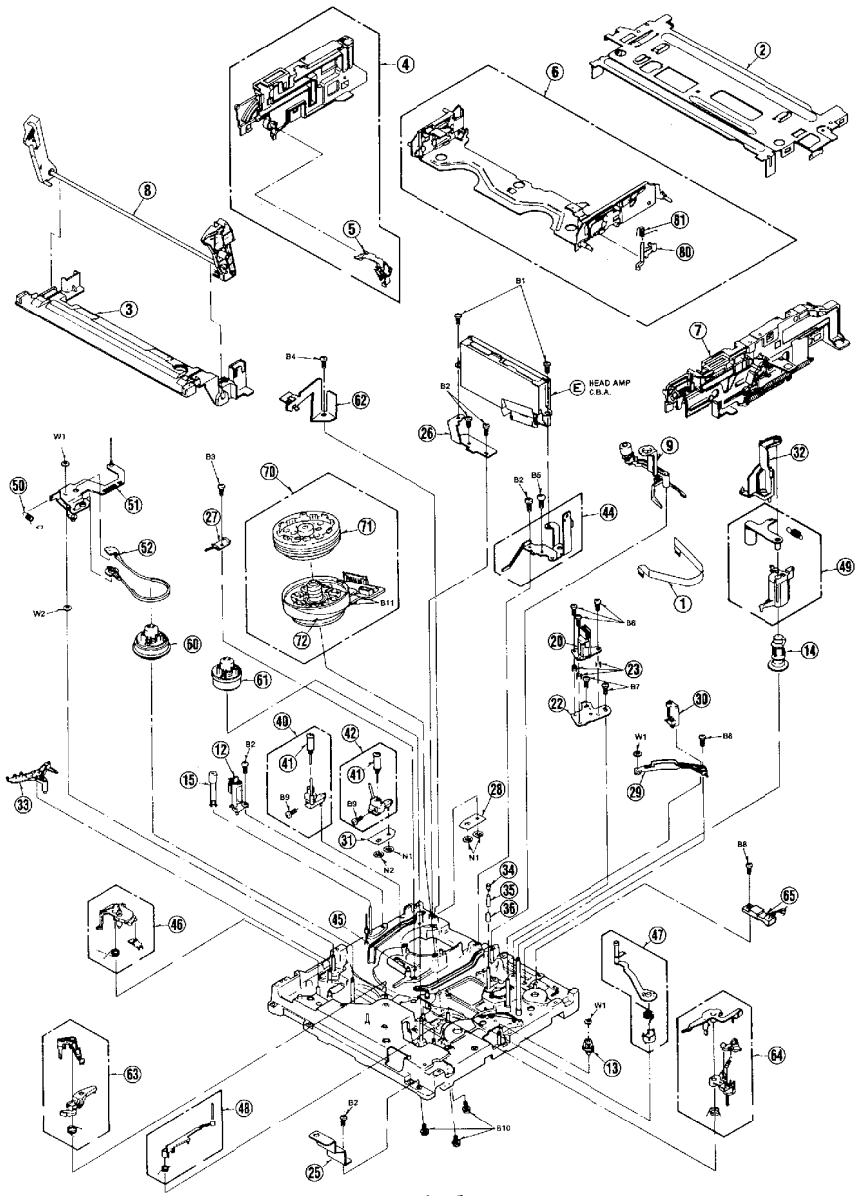
## 3-46. NICAM DECODER PACK C.B.A. (VEP07787K: NV-HD660B) (VEP07787J: NV-HD660EC)

| NICAM DECODER PACK C.B.A. | | | |
|---|---|---|---|
| **Transistor** | | IC7303 | B-1 |
| Q7301 | B-5 | IC7304 | B-6 |
| Q7302 | B-5 | IC7305 | B-7 |
| Q7304 | A-5 | IC7306 | B-6 |
| Q7305 | C-7 | **Test Point** | |
| Q7308 | B-6 | TL7301 | B-6 |
| Q7309 | B-6 | TL7302 | C-6 |
| Q7310 | A-2 | **Adjustment** | |
| Q7311 | A-1 | C7319 | B-5 |
| Q7312 | A-1 | **Connector** | |
| Q7313 | A-1 | PK7301 | A-3 |
| **Transistor & Resistor** | | PK7301 | A-5 |
| QR7301 | A-6 | PK7302 | A-2 |
| QR7302 | A-2 | PK7302 | A-6 |
| **Integrated Circuit** | | | |
| IC7301 | C-2 | | |
| IC7302 | B-6 | | |

ADDRESS INFORMATION



# SECTION 4
# EXPLODED VIEWS & PARTS LIST
## 4-1. EXPLODED VIEW & MECHANICAL REPLACEMENT PARTS LIST
### ❶ CHASSIS PARTS SECTION (1)





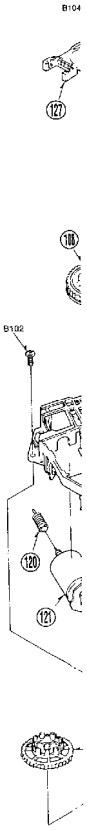

Note: 1. * Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| 1 (1) | VWJ0743 | FLEXIBLE CABLE (6P) | 1 | P4002-A/C HEAD |
| 2 (1) | VMA8644 | TOP PLATE | 1 | |
| 3 (1) | VMA8787 | CASSETTE GUIDE | 1 | |
| 4 (1) | VXA4660 | SIDE PLATE (L) UNIT | 1 | |
| 5 (1) | VXL2250 | OPENER LEVER UNIT | 1 | |
| 6 (1) | VXA4661 | CASSETTE HOLDER PLATE UNIT | 1 | |
| 7 (1) | VXA4805 | SIDE PLATE (R) UNIT | 1 | |
| 8 (1) | VXP1339 | MAIN SHAFT UNIT | 1 | |
| 9 (1) | VXL2440 | CLEANER ARM UNIT | 1 | |
| 12 (1) | VBS0052 | FE HEAD | 1 | |
| 13 (1) | VDG0871 | CARRIAGE CONNECTION GEAR | 1 | |
| 14 (1) | VDG0886 | PINCH CAM GEAR | 1 | |
| 15 (1) | VXP1402 | IMPEDANCE ROLLER UNIT | 1 | |
| 20 (1) | VED0217 | A/C HEAD (1) UNIT | 1 | |
| 22 (1) | VMA8624 | A/C HEAD BASE | 1 | |
| 23 (1) | VMB2515 | A/C HEAD SPRING | 3 | |
| 25 (1) | VMA8761 | MOUNT ANGLE | 1 | |
| 26 (1) | VMA9158 | HEAD AMP MOUNT ANGLE (L) | 1 | |
| 27 (1) | VMC0917 | EARTH SPRING | 1 | |
| 28 (1) | VMA8874 | INCLIND BASE HOLDER (S) | 1 | |
| 29 (1) | VMD2078 | P5 STOPPER BASE | 1 | |
| 30 (1) | VXA4927 | P5 POST STOPPER | 1 | |
| 31 (1) | VMA8873 | INCLIND BASE HOLDER (T) | 1 | |
| 32 (1) | VMD2101 | OPENER PIECE | 1 | |
| 33 (1) | VML2776 | TENSION SPRING ARM | 1 | |
| 34 (1) | VMX1544 | P4 UPPER LIMITER | 1 | |
| 35 (1) | VMX2175 | P4 SLEEVE | 1 | |
| 36 (1) | VMX2176 | P4 LOWER LIMITER | 1 | |
| 40 (1) | VXA5245KIT | INCLINED BASE (S) UNIT | 1 | OR VXA4982KIT |
| 41 (1) | VXP1415 | ROLLER POST | 2 | |
| 42 (1) | VXA5247KIT | INCLINED BASE (T) UNIT | 1 | OR VXA4984KIT |
| 44 (1) | VXA4974 | HEAD AMP MOUNT ANGLE (R) U | 1 | |
| 45 (1) | VMS53B3 | CASSETTE POSITION FIXTURE | 1 | |
| 46 (1) | VXL2310 | REVIEW ARM UNIT | 1 | |
| 47 (1) | VXL2306 | P5 ARM UNIT | 1 | |
| 48 (1) | VXL2394 | TAKE UP TENSION REG. ARM U | 1 | |
| 49 (1) | VXL2246 | PINCH ARM UNIT | 1 | |
| 50 (1) | VMB2434 | TENSION SPRING | 1 | |
| 51 (1) | VXL2309 | TENSION ARM (1) UNIT | 1 | |
| 52 (1) | VXZ0310 | TENSION BAND UNIT | 1 | |
| 60 (1) | VXR0221 | SUPPLY REEL TABLE UNIT | 1 | |
| 61 (1) | VXR0237 | TAKE UP REEL TABLE UNIT | 1 | |
| 62 (1) | VXS0241 | EARTH PLATE | 1 | |
| 63 (1) | VXZ0312 | SUPPLY BRAKE ARM UNIT | 1 | |
| 64 (1) | VXZ0313 | TAKE UP BRAKE ARM UNIT | 1 | |
| 65 (1) | 2SB1370YDOIE | POWER TRANSISTOR | 1 | |
| 70 (1) | VEG1215 | CYLINDER UNIT | 1 | [SUPPLIED FROM MBV] |
| 71 (1) | VXP1744 | UPPER CYLINDER UNIT | 1 | [SUPPLIED FROM MBV] |
| 71 (1) | VXP1553 | UPPER CYLINDER UNIT | 1 | [SUPPLIED FROM MBV] THERE IS INTERCHANGEABILITY BETWEEN VXP1744 AND VXP1553. |
| 72 (1) | VSG4474 | CYLINDER SHIELD PLATE | 1 | [SUPPLIED FROM MBV] |
| 80 (1) | VML2680 | RELEASE LEVER | 1 | |
| 81 (1) | VMB2013 | RELEASE SPRING | 1 | |
| B1 (1) | VHD0773 | SCREW | 2 | |
| B2 (1) | XTV26+6F | SCREW | 5 | |
| B3 (1) | XTV26+4F | SCREW | 1 | |
| B4 (1) | XTN3+6FFZ | SCREW | 1 | |
| B5 (1) | XTV26+10F | SCREW | 1 | |
| B6 (1) | VHD0762 | SCREW | 3 | |
| B7 (1) | XTV26+6FZ | SCREW | 2 | |
| B8 (1) | XTV26+8F | SCREW | 2 | |
| B9 (1) | XBN2+AJ4 | SCREW | 2 | |
| B10 (1) | VHD0342 | SCREW | 3 | |
| B11 (1) | XYNV0029 | SCREW | 2 | |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| N1 (1) | VHN0182 | NUT | 3 | |
| N2 (1) | VHN0193 | NUT | 1 | |
| W1 (1) | VMX2208 | WASHER | 3 | |
| W2 (1) | XWGV26D5G | WASHER | 1 | |

Note: 1. * Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| 100 (2) | VEK5927 | CAPSTAN STATOR UNIT | 1 | |
| 101 (2) | VBK0061 | FG HEAD | 1 | |
| 103 (2) | VMA8930 | ROTOR STOPPER | 1 | |
| 104 (2) | VMX1927 | OIL SEAL | 2 | |
| 105 (2) | VXD0140 | HOUSING UNIT | 1 | |
| 106 (2) | VXP1519 | CAPSTAN ROTOR UNIT | 1 | |
| 107 (2) | VXQ0297 | THRUST SCREW UNIT | 1 | |
| 108 (2) | VDG0913 | MAIN CAM GEAR | 1 | |
| 109 (2) | VDG0956 | SUPPLY REEL GEAR | 1 | |
| 110 (2) | VDG0957 | TAKE UP REEL GEAR | 1 | |
| 111 (2) | VDG0868 | WORM WHEEL GEAR | 1 | |
| 112 (2) | VDG0885 | SUB CAM GEAR | 1 | |
| 113 (2) | VDV0235 | TIMING BELT | 1 | |
| 120 (2) | VDG0866 | WORM GEAR | 1 | |
| 121 (2) | VEM0427 | LOADING MOTOR (1) UNIT | 1 | |
| 123 (2) | VMD1942 | MOTOR BRACKET | 1 | |
| 126 (2) | VML2725 | IDLER CONTROL LEVER | 1 | |
| 127 (2) | VSS0365 | MODE SW | 1 | |
| 128 (2) | VXA5138 | SS BRAKE BASE UNIT | 1 | |
| 129 (2) | VXA4799 | TENSION ROLLER UNIT | 1 | |
| 140 (2) | VXL2378 | IDLER ARM UNIT | 1 | |
| 141 (2) | VXL2372 | DIRECT LEVER UNIT | 1 | |
| 142 (2) | VXL2299 | SUPPLY LOADING ARM UNIT | 1 | |
| 143 (2) | VXL2300 | TAKE UP LOADING ARM UNIT | 1 | |
| 144 (2) | VXL2307 | MAIN LEVER UNIT | 1 | |
| 145 (2) | VXP1408 | CENTRE CLUTCH | 1 | |
| B102 (2) | XTV26+8F | SCREW | 1 | |
| B103 (2) | XTV26+6F | SCREW | 3 | |
| B104 (2) | VHD0753 | SCREW | 4 | |
| B105 (2) | VHD0754 | SCREW | 1 | |
| B106 (2) | XSB26+4FZ | SCREW | 1 | |
| W101 (2) | VMX2208 | WASHER | 4 | |



## ❷ CHASSIS PARTS SECTION (2)

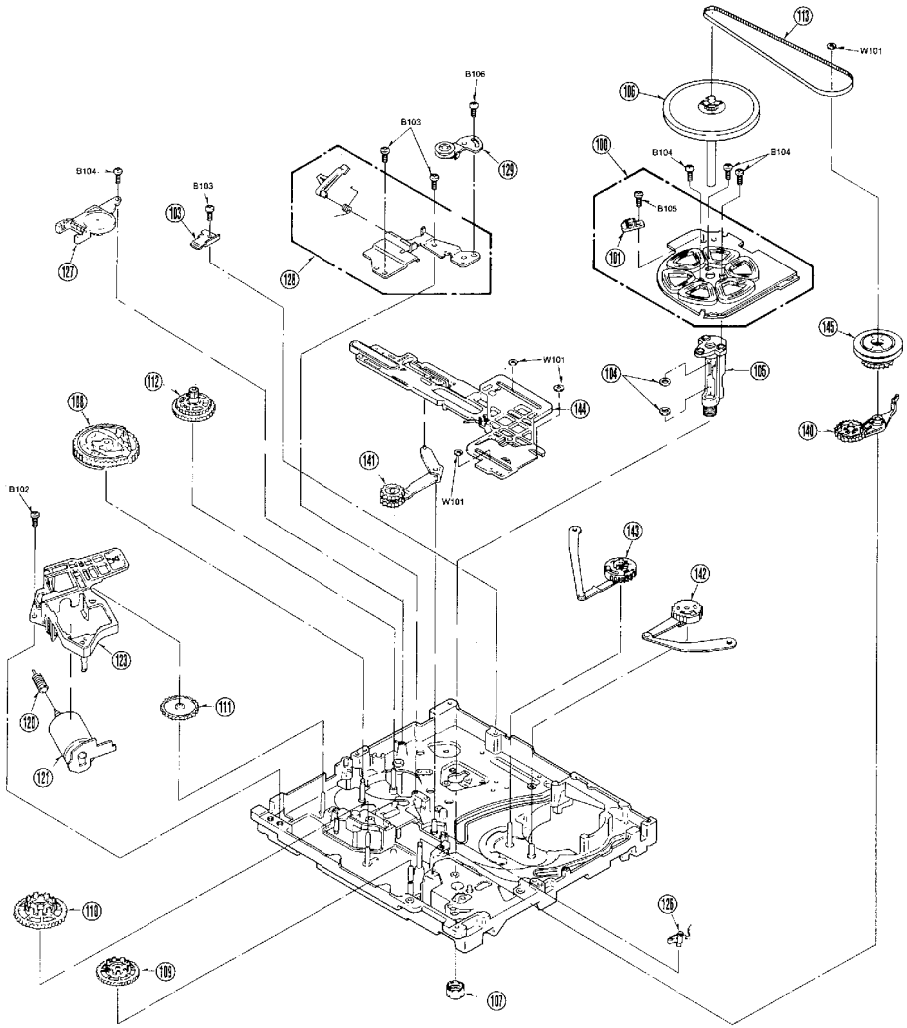
Note: 1. * Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark △ have the special characteristics for safety. When replacing any of these components, use only the same type.

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| 1 (1) | VWJ0743 | FLEXIBLE CABLE (6P) | 1 | P4002-A/C HEAD |
| 2 (1) | VMA8644 | TOP PLATE | 1 | |
| 3 (1) | VMA8787 | CASSETTE GUIDE | 1 | |
| 4 (1) | VXA4660 | SIDE PLATE (L) UNIT | 1 | |
| 5 (1) | VXL2250 | OPENER LEVER UNIT | 1 | |
| 6 (1) | VXA4661 | CASSETTE HOLDER PLATE UNIT | 1 | |
| 7 (1) | VXA4806 | SIDE PLATE (R) UNIT | 1 | |
| 8 (1) | VXP1339 | MAIN SHAFT UNIT | 1 | |
| 9 (1) | VXL2440 | CLEANER ARM UNIT | 1 | |
| 12 (1) | VBS0052 | FE HEAD | 1 | |
| 13 (1) | VDG0871 | CARRIAGE CONNECTION GEAR | 1 | |
| 14 (1) | VDG0886 | PINCH CAM GEAR | 1 | |
| 15 (1) | VXP1402 | IMPEDANCE ROLLER UNIT | 1 | |
| 20 (1) | VED0217 | A/C HEAD (1) UNIT | 1 | |
| 22 (1) | VMA8624 | A/C HEAD BASE | 1 | |
| 23 (1) | VMB2515 | A/C HEAD SPRING | 3 | |
| 25 (1) | VMA8761 | MOUNT ANGLE | 1 | |
| 26 (1) | VMA9158 | HEAD AMP MOUNT ANGLE (L) | 1 | |
| 27 (1) | VMC0917 | EARTH SPRING | 1 | |
| 28 (1) | VMA8874 | INCLIND BASE HOLDER (S) | 1 | |
| 29 (1) | VMD2078 | PS STOPPER BASE | 1 | |
| 30 (1) | VXA4927 | PS POST STOPPER | 1 | |
| 31 (1) | VMA8873 | INCLIND BASE HOLDER (T) | 1 | |
| 32 (1) | VMD2101 | OPENER PIECE | 1 | |
| 33 (1) | VML2776 | TENSION SPRING ARM | 1 | |
| 34 (1) | VMX1544 | P4 UPPER LIMITER | 1 | |
| 35 (1) | VMX2175 | P4 SLEEVE | 1 | |
| 36 (1) | VMX2176 | P4 LOWER LIMITER | 1 | |
| 40 (1) | VXA5245KIT | INCLINED BASE (S) UNIT | 1 | OR VXA4982KIT |
| 41 (1) | VXP1415 | ROLLER POST | 2 | |
| 42 (1) | VXA5247KIT | INCLINED BASE (T) UNIT | 1 | OR VXA4984KIT |
| 44 (1) | VXA4974 | HEAD AMP MOUNT ANGLE (R) U | 1 | |
| 45 (1) | VMS5383 | CASSETTE POSITION FIXTURE | 1 | |
| 46 (1) | VXL2370 | REVIEW ARM UNIT | 1 | |
| 47 (1) | VXL2306 | PS ARM UNIT | 1 | |
| 48 (1) | VXL2394 | TAKE UP TENSION REG.ARM U | 1 | |
| 49 (1) | VXL2246 | PINCH ARM UNIT | 1 | |
| 50 (1) | VMB2434 | TENSION SPRING | 1 | |
| 51 (1) | VXL2309 | TENSION ARM (1) UNIT | 1 | |
| 52 (1) | VXZ0310 | TENSION BAND UNIT | 1 | |
| 60 (1) | VXR0221 | SUPPLY REEL TABLE UNIT | 1 | |
| 61 (1) | VXR0237 | TAKE UP REEL TABLE UNIT | 1 | |
| 62 (1) | VXS0241 | EARTH PLATE | 1 | |
| 63 (1) | VXZ0312 | SUPPLY BRAKE ARM UNIT | 1 | |
| 64 (1) | VXZ0313 | TAKE UP BRAKE ARM UNIT | 1 | |
| 65 (1) | 2SB1370YD01E | POWER TRANSISTOR | 1 | |
| 70 (1) | VEG1215 | CYLINDER UNIT | 1 | [SUPPLIED FROM MBV] |
| 71 (1) | VXP1744 | UPPER CYLINDER UNIT | 1 | [SUPPLIED FROM MBV] |
| 71 (1) | VXP1553 | UPPER CYLINDER UNIT | 1 | [SUPPLIED FROM MBV] |
| | | | | THERE IS |
| | | | | INTERCHANGEABILITY |
| | | | | BETWEEN VXP1744 |
| | | | | AND VXP1553 |
| 72 (1) | VSC4474 | CYLINDER SHIELD PLATE | 1 | [SUPPLIED FROM MBV] |
| 80 (1) | VML2680 | RELEASE LEVER | 1 | |
| 81 (1) | VMB2013 | RELEASE SPRING | 1 | |
| B1 (1) | VHD0773 | SCREW | 2 | |
| B2 (1) | XTV26+6F | SCREW | 5 | |
| B3 (1) | XTV26+4F | SCREW | 1 | |
| B4 (1) | XTN3+6FFZ | SCREW | 1 | |
| B5 (1) | XTV26+10F | SCREW | 1 | |
| B6 (1) | VHD0762 | SCREW | 3 | |
| B7 (1) | XTV26+6FZ | SCREW | 2 | |
| B8 (1) | XTV26+8F | SCREW | 2 | |
| B9 (1) | XQN2+AJ4 | SCREW | 2 | |
| B10 (1) | VHD0342 | SCREW | 3 | |
| B11 (1) | XYNV0029 | SCREW | 2 | |

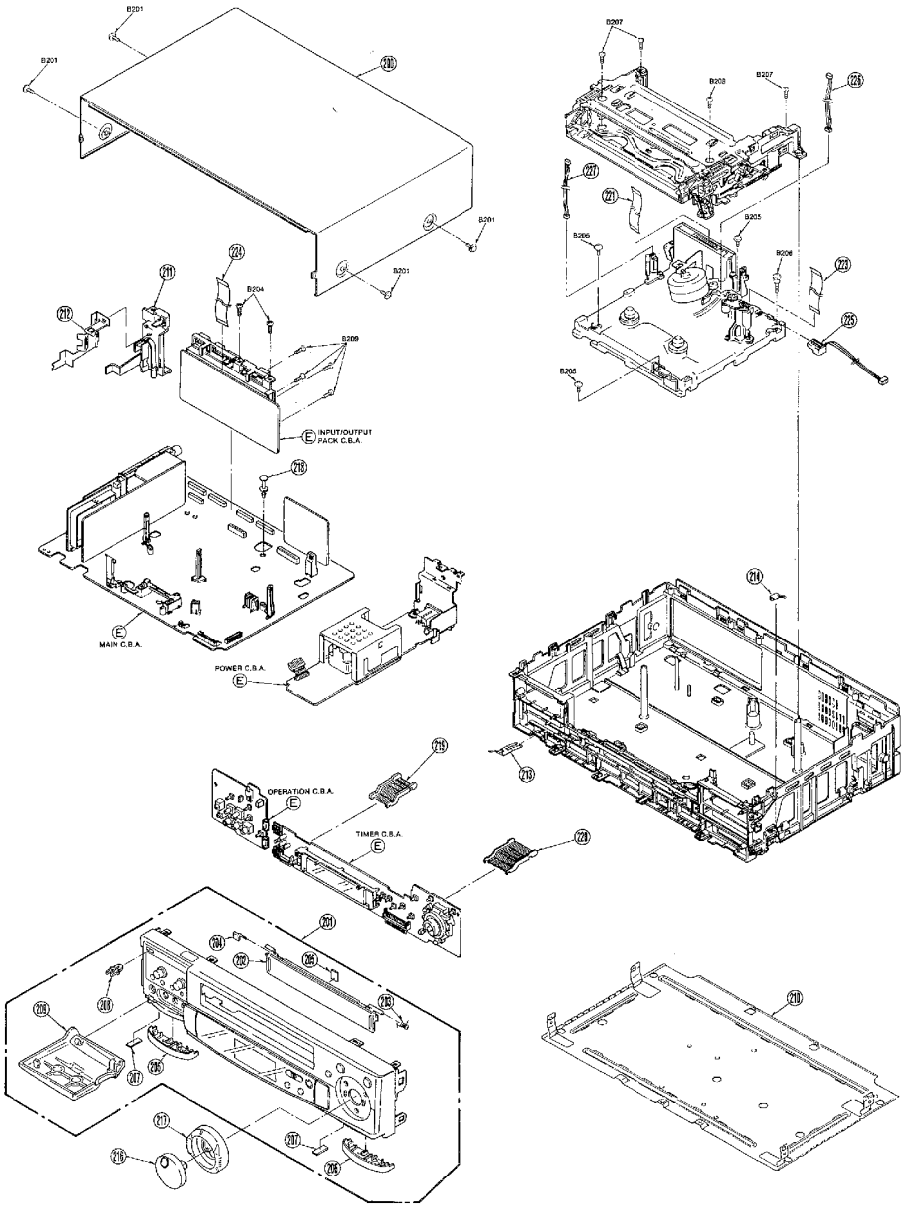
| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| N1 (1) | VHN0192 | NUT | 3 | |
| N2 (1) | VHN0193 | NUT | 1 | |
| W1 (1) | VMX2208 | WASHER | 3 | |
| W2 (1) | XW9+26D5B | WASHER | 1 | |

Note: 1. * Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark △ have the special characteristics for safety. When replacing any of these components, use only the same type.

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| 100 (2) | VEK3927 | CAPSTAN STATOR UNIT | 1 | |
| 101 (2) | VBK0061 | FG HEAD | 1 | |
| 103 (2) | VMA8930 | ROTOR STOPPER | 1 | |
| 104 (2) | VMX1927 | OIL SEAL | 2 | |
| 105 (2) | VXD0140 | HOUSING UNIT | 1 | |
| 106 (2) | VXP1519 | CAPSTAN ROTOR UNIT | 1 | |
| 107 (2) | VXQ0297 | THRUST SCREW UNIT | 1 | |
| 108 (2) | VDG0913 | MAIN CAM GEAR | 1 | |
| 109 (2) | VDG0956 | SUPPLY REEL GEAR | 1 | |
| 110 (2) | VDG0957 | TAKE UP REEL GEAR | 1 | |
| 111 (2) | VDG0868 | WORM WHEEL GEAR | 1 | |
| 112 (2) | VDG0885 | SUB CAM GEAR | 1 | |
| 113 (2) | VDV0235 | TIMING BELT | 1 | |
| 120 (2) | VDG0866 | WORM GEAR | 1 | |
| 121 (2) | VEM0927 | LOADING MOTOR (1) UNIT | 1 | |
| 123 (2) | VMD1942 | MOTOR BRACKET | 1 | |
| 126 (2) | VML2725 | IDLER CONTROL LEVER | 1 | |
| 127 (2) | VSS0165 | MODE SW | 1 | |
| 128 (2) | VXA5138 | SS BRAKE BASE UNIT | 1 | |
| 129 (2) | VXA4799 | TENSION ROLLER UNIT | 1 | |
| 140 (2) | VXL2378 | IDLER ARM UNIT | 1 | |
| 141 (2) | VXL2372 | DIRECT LEVER UNIT | 1 | |
| 142 (2) | VXL2299 | SUPPLY LOADING ARM UNIT | 1 | |
| 143 (2) | VXL2300 | TAKE UP LOADING ARM UNIT | 1 | |
| 144 (2) | VXL2307 | MAIN LEVER UNIT | 1 | |
| 145 (2) | VXP1409 | CENTRE CLUTCH | 1 | |
| B102 (2) | XTV26+8F | SCREW | 1 | |
| B103 (2) | XTV26+6F | SCREW | 3 | |
| B104 (2) | VHD0753 | SCREW | 4 | |
| B105 (2) | VHD0754 | SCREW | 1 | |
| B106 (2) | XSB26+4FZ | SCREW | 1 | |
| W101 (2) | VMX2208 | WASHER | 4 | |



## ❸ CASING PARTS SECTION




Note: 1. * Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| 200 (3) | VGM1150 | TOP PANEL | 1 | |
| 201 (3) | VYP6190 | FRONT PANEL UNIT | 1 | [SUPPLIED FROM MBV] NV-HD660EG/EGH |
| 201 (3) | VYP6274 | FRONT PANEL UNIT | 1 | [SUPPLIED FROM MBV] NV-HD660B |
| 201 (3) | VYP6275 | FRONT PANEL UNIT | 1 | [SUPPLIED FROM MBV] NV-HD660EC |
| 202 (3) | VKF2582 | BLINDER PANEL | 1 | [SUPPLIED FROM MBV] |
| 203 (3) | VMB2521 | BLINDER SPRING | 1 | |
| 204 (3) | VDK0148 | BLINDER CAM | 1 | |
| 205 (3) | VMT0502 | BLINDER CUSHION | 1 | |
| 206 (3) | VKA0191 | LEG | 2 | |
| 207 (3) | VKA0122 | FOOT | 2 | |
| 208 (3) | VGQ0550 | DOOR LOCK PIECE | 1 | |
| 209 (3) | VKF2572 | DOOR PANEL | 1 | [SUPPLIED FROM MBV] NV-HD660EG/EGH |
| 209 (3) | VKF2607 | DOOR PANEL | 1 | [SUPPLIED FROM MBV] NV-HD660B |
| 209 (3) | VKF2608 | DOOR PANEL | 1 | [SUPPLIED FROM MBV] NV-HD660EC |
| 210 (3) | VKU0412 | BOTTOM PLATE | 1 | |
| 211 (3) | VJH0832 | ANTENNA JACK PLATE | 1 | |
| 212 (3) | VMC1213 | ANTENNA EARTH SPRING | 1 | |
| 213 (3) | VMC1062 | JACK EARTH SPRING | 1 | |
| 214 (3) | VMC1065 | EARTH SPRING | 1 | |
| 215 (3) | VGU7249 | JOG DIAL | 1 | [SUPPLIED FROM MBV] |
| 217 (3) | VGU7250 | SHUTTLE RING | 1 | [SUPPLIED FROM MBV] |
| 218 (3) | VMX2233 | C.B.A. SPACER | 1 | |
| 219 (3) | VJP3673A014G | BRIDGE CONNECTOR (14P) | 1 | [SUPPLIED FROM MBV] PS3001-PS7502 |
| 220 (3) | VJP3673A025G | BRIDGE CONNECTOR (25P) | 1 | PS6002-PS7501 |
| 221 (3) | VWJ1101 | FLAT CARD CABLE (20P) | 1 | [SUPPLIED FROM MBV] P501-P3002 |
| 223 (3) | VWJ1102 | FLAT CARD CABLE (15P) | 1 | [SUPPLIED FROM MBV] P2002-CAPSTAN |
| 224 (3) | VWJ1103 | FLAT CARD CABLE (6P) | 1 | [SUPPLIED FROM MBV] P3901-P6501 |
| 225 (3) | VEE6223 | WIRE CABLE | 1 | P2502-POWER TR. |
| 226 (3) | VEE9775 | WIRE CABLE | 1 | [SUPPLIED FROM MBV] P2004-CYLINDER |
| 227 (3) | VEE9776 | WIRE CABLE | 1 | [SUPPLIED FROM MBV] P4003-FE HEAD |
| B201 (3) | XTW3+10TFZ | SCREW | 4 | |
| B204 (3) | VHD0773 | SCREW | 2 | |
| B205 (3) | VHD0168 | SCREW | 3 | |
| B206 (3) | VHD0874 | SCREW | 1 | |
| B207 (3) | XTV26+8FR | SCREW | 3 | |
| B208 (3) | XTV26+10F | SCREW | 1 | |
| B209 (3) | XTV3+8GFZ | SCREW | 4 | |



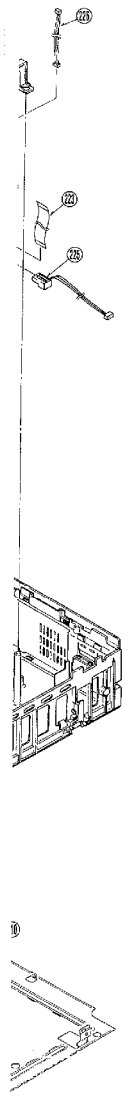
Note: 1. * Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| ⚠ 300 (4) | VQT6572 | OPERATING INSTRUCTIONS (ENGLISH/GERMAN/ITALIAN) | 1 | [SUPPLIED FROM MBV] NV-HD660EG |
| ⚠ 300 (4) | VQT6573 | OPERATING INSTRUCTIONS (FRENCH/DUTCH) | 1 | [SUPPLIED FROM MBV] NV-HD660EG/EGH/EC |
| ⚠ 300 (4) | VQT6578 | OPERATING INSTRUCTIONS (ENGLISH) | 1 | [SUPPLIED FROM MBV] NV-HD660B |
| ⚠ 300 (4) | VQT6574 | OPERATING INSTRUCTIONS (SPANISH) | 1 | [SUPPLIED FROM MBV] NV-HD660EC |
| ⚠ 300 (4) | VQT6580 | OPERATING INSTRUCTIONS (SWEDISH/DANISH/FINNISH) | 1 | [SUPPLIED FROM MBV] NV-HD660EC |
| 301 (4) | VEG1878 | REMOTE CONTROLLER | 1 | [SUPPLIED FROM MBV] NV-HD660EG/EGH/EC |
| 301 (4) | VEG1879 | REMOTE CONTROLLER | 1 | [SUPPLIED FROM MBV] NV-HD660B |
| 304 (4) | VJA0963 | DIN RF CABLE | 1 | |
| ⚠ 305 (4) | VJA0664 | AC CORD | 1 | NV-HD660EG/EGH/EC |
| ⚠ 305 (4) | VJA0733 | AC CORD | 1 | NV-HD660B |
| 307 (4) | VJA0231 | AUDIO CABLE | 1 | |
| 310 (4) | VPK0825 | ACCESSORIES PAKING | 1 | |
| 311 (4) | VPN4449 | CUSHION (R) | 1 | [SUPPLIED FROM MBV] |
| 312 (4) | VPN4450 | CUSHION (L) | 1 | [SUPPLIED FROM MBV] |
| 313 (4) | VPN4460 | PAD | 1 | NV-HD660EC |
| 315 (4) | VPG8527 | PACKING | 1 | [SUPPLIED FROM MBV] |



## ❹ PACKING F

Note: 1. * Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.



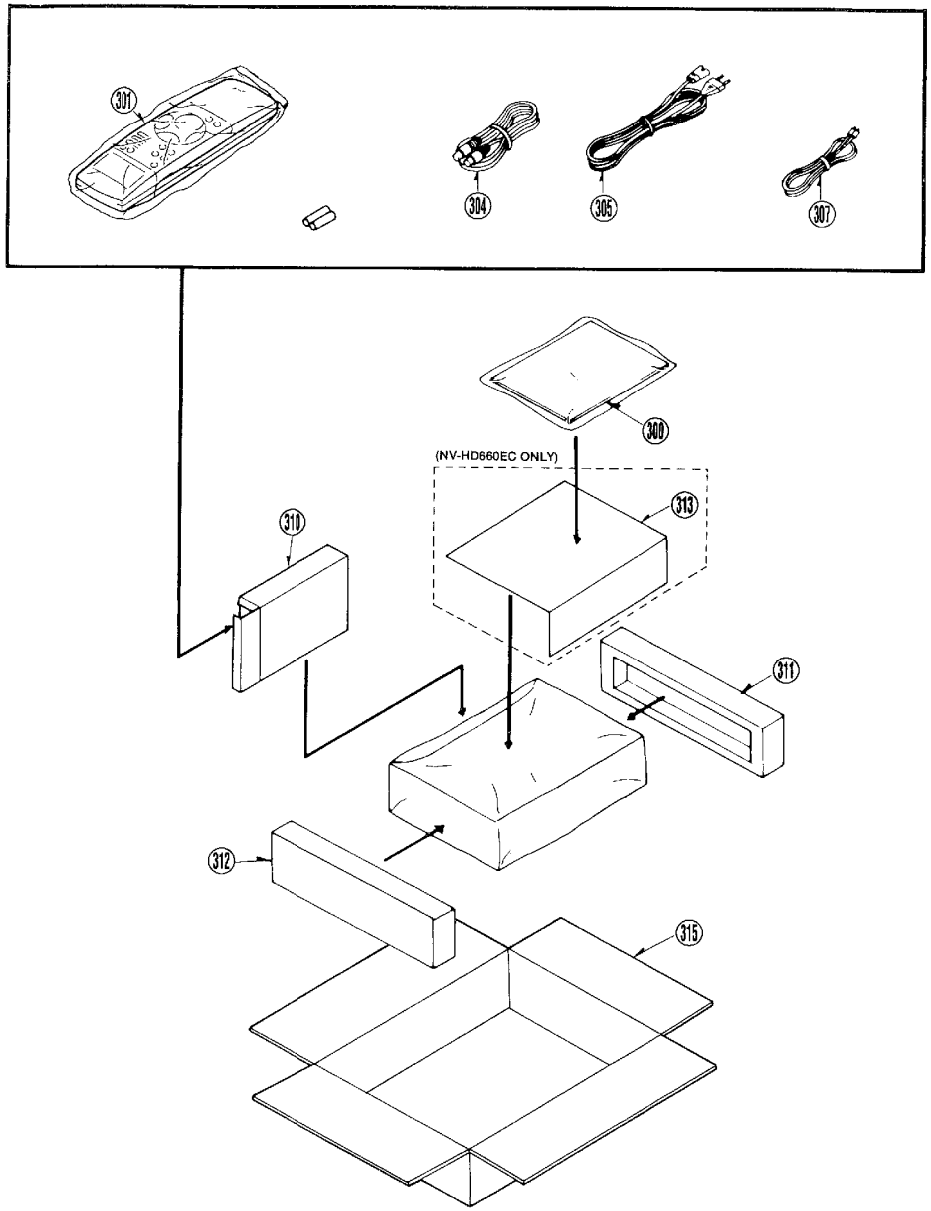
| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| 200 (3) | VGM1150 | TOP PANEL | 1 | |
| 201 (3) | VYP6190 | FRONT PANEL UNIT | 1 | [SUPPLIED FROM MBV] NV-HD660EG/EGH |
| 201 (3) | VYP6274 | FRONT PANEL UNIT | 1 | [SUPPLIED FROM MBV] NV-HD660B |
| 201 (3) | VYP6275 | FRONT PANEL UNIT | 1 | [SUPPLIED FROM MBV] NV-HD660EC |
| 202 (3) | VXF2582 | BLINDER PANEL | 1 | [SUPPLIED FROM MBV] |
| 203 (3) | VMB2521 | BLINDER SPRING | 1 | |
| 204 (3) | VDK0148 | BLINDER CAM | 1 | |
| 205 (3) | VMT0502 | BLINDER CUSHION | 1 | |
| 206 (3) | VKA0191 | LEG | 2 | |
| 207 (3) | VKA0122 | FOOT | 2 | |
| 208 (3) | VGD0550 | DOOR LOCK PIECE | 1 | |
| 209 (3) | VXF2572 | DOOR PANEL | 1 | [SUPPLIED FROM MBV] NV-HD660EG/EGH |
| 209 (3) | VXF2607 | DOOR PANEL | 1 | [SUPPLIED FROM MBV] NV-HD660B |
| 209 (3) | VXF2608 | DOOR PANEL | 1 | [SUPPLIED FROM MBV] NV-HD660EC |
| 210 (3) | VKU0412 | BOTTOM PLATE | 1 | |
| 211 (3) | VJH0832 | ANTENNA JACK PLATE | 1 | |
| 212 (3) | VMC1213 | ANTENNA EARTH SPRING | 1 | |
| 213 (3) | VMC1062 | JACK EARTH SPRING | 1 | |
| 214 (3) | VMC1065 | EARTH SPRING | 1 | |
| 216 (3) | VGU7249 | JOG DIAL | 1 | [SUPPLIED FROM MBV] |
| 217 (3) | VGU7250 | SHUTTLE RING | 1 | [SUPPLIED FROM MBV] |
| 218 (3) | VMX2233 | C.B.A. SPACER | 1 | |
| 219 (3) | VJP3673A014G | BRIDGE CONNECTOR (14P) | 1 | [SUPPLIED FROM MBV] PS3001-PS7502 |
| 220 (3) | VJP3673A025G | BRIDGE CONNECTOR (25P) | 1 | PS6002-PS7501 |
| 221 (3) | VWJ1101 | FLAT CARD CABLE (20P) | 1 | [SUPPLIED FROM MBV] PS01-P3002 |
| 223 (3) | VWJ1102 | FLAT CARD CABLE (15P) | 1 | [SUPPLIED FROM MBV] P2002-CAPSTAN |
| 224 (3) | VWJ1103 | FLAT CARD CABLE (6P) | 1 | [SUPPLIED FROM MBV] P3901-P6501 |
| 225 (3) | VEE9223 | WIRE CABLE | 1 | P2502-POWER TR. |
| 226 (3) | VEE9775 | WIRE CABLE | 1 | [SUPPLIED FROM MBV] P2004-CYLINDER |
| 227 (3) | VEE9776 | WIRE CABLE | 1 | [SUPPLIED FROM MBV] P4003-FE HEAD |
| B201 (3) | XTW3+10TFZ | SCREW | 4 | |
| B204 (3) | VHD0773 | SCREW | 2 | |
| B205 (3) | VHD0168 | SCREW | 3 | |
| B206 (3) | VHD0874 | SCREW | 1 | |
| B207 (3) | XTV26+8FR | SCREW | 3 | |
| B208 (3) | XTV26+10F | SCREW | 1 | |
| B209 (3) | XTV3+8GFZ | SCREW | 4 | |

Note: 1. * Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.

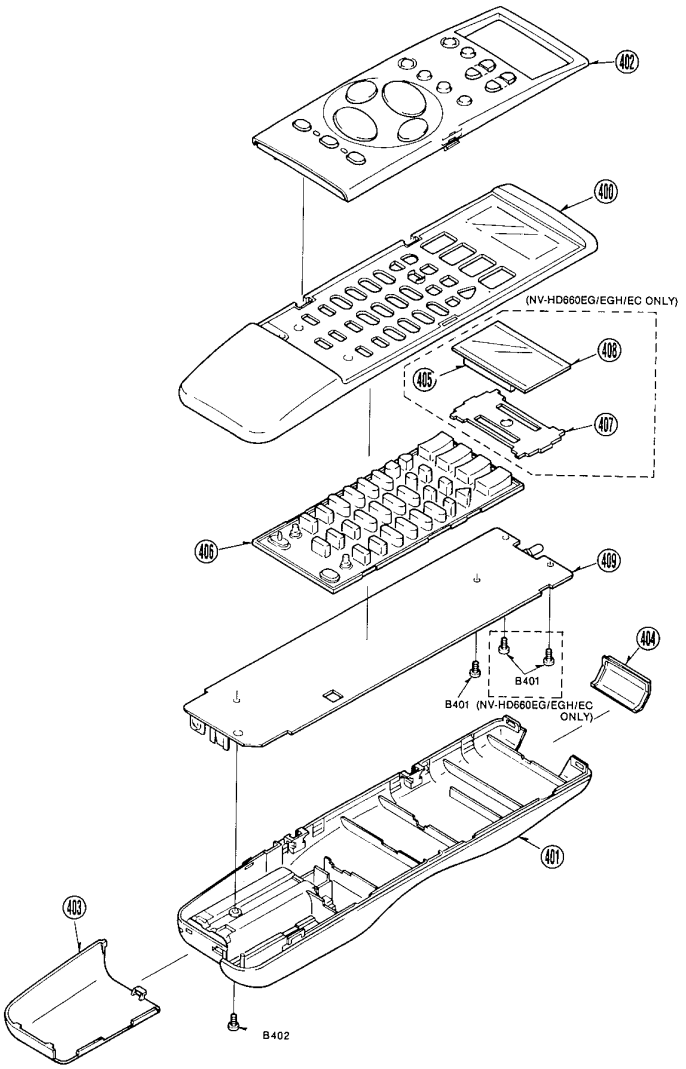
| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| ⚠ 300 (4) | VQT6572 | OPERATING INSTRUCTIONS (ENGLISH/GERMAN/ITALIAN) | 1 | [SUPPLIED FROM MBV] NV-HD660EG |
| ⚠ 300 (4) | VQT6573 | OPERATING INSTRUCTIONS (FRENCH/DUTCH) | 1 | [SUPPLIED FROM MBV] NV-HD660EG/EGH/EC |
| ⚠ 300 (4) | VQT6578 | OPERATING INSTRUCTIONS (ENGLISH) | 1 | [SUPPLIED FROM MBV] NV-HD660B |
| ⚠ 300 (4) | VQT6574 | OPERATING INSTRUCTIONS (SPANISH) | 1 | [SUPPLIED FROM MBV] NV-HD660EG |
| ⚠ 300 (4) | VQT6580 | OPERATING INSTRUCTIONS (SWEDISH/DANISH/FINNISH) | 1 | [SUPPLIED FROM MBV] NV-HD660EC |
| 301 (4) | VEQ1878 | REMOTE CONTROLLER | 1 | [SUPPLIED FROM MBV] NV-HD660EG/EGH/EC |
| 301 (4) | VEQ1879 | REMOTE CONTROLLER | 1 | [SUPPLIED FROM MBV] NV-HD660B |
| 304 (4) | VJA0963 | DIN RF CABLE | 1 | |
| ⚠ 305 (4) | VJA0664 | AC CORD | 1 | NV-HD660EG/EGH/EC |
| ⚠ 305 (4) | VJA0733 | AC CORD | 1 | NV-HD660B |
| 307 (4) | VJA0231 | AUDIO CABLE | 1 | |
| 310 (4) | VPK0825 | ACCESSORIES PAKING | 1 | |
| 311 (4) | VPN4449 | CUSHION (R) | 1 | [SUPPLIED FROM MBV] |
| 312 (4) | VPN4450 | CUSHION (L) | 1 | [SUPPLIED FROM MBV] |
| 313 (4) | VPN4460 | PAD | 1 | NV-HD660EC |
| 315 (4) | VPG8527 | PACKING | 1 | [SUPPLIED FROM MBV] |



## ❹ PACKING PARTS SECTION



## ❺ REMOTE CONTROLLER UNIT




Note: 1. * Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| 400 (5) | VYK7097 | TOP COVER UNIT | 1 | [SUPPLIED FROM MBV] NV-HD660EG/EGH/EC |
| 400 (5) | VYK7090 | TOP COVER UNIT | 1 | [SUPPLIED FROM MBV] NV-HD660B |
| 401 (5) | VYK5446 | BOTTOM COVER UNIT | 1 | |
| 402 (5) | VYK7104 | DOOR PANEL UNIT | 1 | NV-HD660EG/EGH/EC |
| 402 (5) | VYK7092 | DOOR PANEL UNIT | 1 | NV-HD660B |
| 403 (5) | VKF2115 | BATTERY COVER | 1 | |
| 404 (5) | VKW1802 | IR WINDOW | 1 | |
| 405 (5) | VSQ0830 | CONDUCTIVE RUBBER | 2 | NV-HD660EG/EGH/EC |
| 406 (5) | VSP0861 | RUBBER CONTACT | 1 | NV-HD660EG/EGH/EC |
| 406 (5) | VSP0870 | RUBBER CONTACT | 1 | NV-HD660B |
| 407 (5) | VSQ0829 | LCD SPACER | 1 | NV-HD660EG/EGH/EC |
| 408 (5) | VSL0477 | LCD | 1 | [SUPPLIED FROM MBV] NV-HD660EG/EGH/EC |
| 409 (5) | ---------- | REMOTE CONTROLLER C.B.A. | 1 | THE C.B.A. IS NOT SUPPLIED AS SPARE PART. |
| B401 (5) | XTB2+6G | SCREW | 3 | [SUPPLIED FROM MBV] NV-HD660EG/EGH/EC |
| B401 (5) | XTB2+6G | SCREW | 1 | [SUPPLIED FROM MBV] NV-HD660B |
| B402 (5) | XTB2+8GFZ | SCREW | 1 | |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| | | SERVICE FIXTURES & TOOLS | | |
| | VFJ8125H3F | VHS ALIGNMENT TAPE (PAL) | 1 | |
| | VFK0335 | RETAINING RING REMOVER (3MM/4MM) | 1 | |
| | VFK0329 | POST ADJUSTMENT SCREWDRIVE | 1 | |
| | VFK0326 | HEX WRENCH SET | 1 | |
| | VFK0132 | BACK TENSION METER | 1 | |
| | VFK27 | HEAD CLEANING STICK | 1 | |
| | VFK1024 | MORLYTONE GREASE | 1 | |
| | VFK0680 | WHITE GREASE | 1 | |
| | VFK0851 | CENTRE FIXING TOOL | 1 | |
| | VFK0330 | FINE ADJUSTMENT GEAR DRIVE | 1 | |
| | VFK1140 | 11P EXTENSION CABLE | 1 | |

# 4-2. ELECTRICAL REPLACEMENT PARTS LIST

Note: 1. Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE : Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.
3. Unless otherwise specified,
All resistors are in OHMS, K=1,000 OHMS. All capacitors are in MICROFARADS(uf), P=uuF.
4. The P.C. Board units marked width " ■ " show below the main assembled parts.
5. The marking (RTL) indicaters the retention time is limited for this item.
After the discontinuation of this assembly in production, it will no longer be available.

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| ■ | VEP06B36D | MAIN C. B. A. | 1 | [SUPPLIED FROM MBV] |
| | | (PAGE:4-9) | | (RTL) |
| | | | | NV-HD660EG/EGH |
| | | | | THE FOLLOWING C. B. A. S ARE |
| | | | | INCLUDED IN MAIN C. B. A. |
| | | | | VEP03D32C |
| | | | | VEP04644C |
| | | | | VEP07784D |
| | | | | VEP07801B |
| ■ | VEP03D32C | LUMINANCE & CHROMINANCE | 1 | [SUPPLIED FROM MBV] |
| | | PACK C. B. A. | | (RTL) |
| | | | | NV-HD660EG/EGH |
| | | | | INCLUDED IN MAIN C. B. A. |
| | | | | (VEP06B36D). |
| | | | | THE FOLLOWING C. B. A. S |
| | | | | ARE INCLUDED IN LUMI. |
| | | | | & CHRO. PACK C. B. A. |
| | | | | VEP03A03A |
| | | | | VEP03D54A |
| | | | | VEP03D91A |
| | | | | VEP08171A |
| ■ | VEP03A03A | SQ PB C. B. A. | 1 | [SUPPLIED FROM MBV] |
| | | | | (RTL) |
| | | | | NV-HD660EG/EGH |
| | | | | INCLUDED IN LUMI. & CHRO. |
| | | | | C. B. A. (VEP03D32G). |
| ■ | VEP03D54A | SQ PB (2) C. B. A. | 1 | [SUPPLIED FROM MBV] |
| | | | | (RTL) |
| | | | | NV-HD660EG/EGH |
| | | | | INCLUDED IN LUMI. & CHRO. |
| | | | | C. B. A. (VEP03D32G). |
| ■ | VEP03D91A | REC CHROMA C. B. A. | 1 | [SUPPLIED FROM MBV] |
| | | | | (RTL) |
| | | | | NV-HD660EG/EGH |
| | | | | INCLUDED IN LUMI. & CHRO. |
| | | | | C. B. A. (VEP03D32G). |
| ■ | VEP08171A | CNR C. B. A. | 1 | [SUPPLIED FROM MBV] |
| | | | | (RTL) |
| | | | | NV-HD660EG/EGH |
| | | | | INCLUDED IN LUMI. & CHRO. |
| | | | | C. B. A. (VEP03D32G). |
| ■ | VEP04644C | HI-FI AUDIO PACK C. B. A. | 1 | [SUPPLIED FROM MBV] |
| | | | | (RTL) |
| | | | | NV-HD660EG/EGH |
| | | | | INCLUDED IN MAIN C. B. A. |
| | | | | (VEP06B36D). |
| ■ | VEP07784D | DECODER PACK C. B. A. | 1 | [SUPPLIED FROM MBV] |
| | | | | (RTL) |
| | | | | NV-HD660EG/EGH |
| | | | | INCLUDED IN MAIN C. B. A. |
| | | | | (VEP06B36D). |
| ■ | VEP07801B | TV DEMODULATOR PACK C. B. A | 1 | [SUPPLIED FROM MBV] |
| | | | | (RTL) |
| | | | | NV-HD660EG/EGH |
| | | | | INCLUDED IN MAIN C. B. A. |
| | | | | (VEP06B36D). |
| ■ | VEP06B36K | MAIN C. B. A. | 1 | [SUPPLIED FROM MBV] |
| | | (PAGE:4-16) | | (RTL) |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| | | | | NV-HD660B |
| | | | | THE FOLLOWING C. B. A. S ARE |
| | | | | INCLUDED IN MAIN C. B. A. |
| | | | | VEP03D32H |
| | | | | VEP04644C |
| | | | | VEP07787K |
| | | | | VEP07801Y |
| ■ | VEP03D32H | LUMINANCE & CHROMINANCH | 1 | [SUPPLIED FROM MBV] |
| | | PACK C. B. A. | | (RTL) |
| | | | | NV-HD660B |
| | | | | INCLUDED IN MAIN C. B. A. |
| | | | | (VEP06B36K). |
| | | | | THE FOLLOWING C. B. A. S ARE |
| | | | | INCLUDED IN LUMI. |
| | | | | & CHRO. PACK C. B. A. |
| | | | | VE003A03A |
| | | | | VEP03D54A |
| | | | | VEP03D91A |
| | | | | VEP08171A |
| ■ | VE003A03A | SQ PB C. B. A. | 1 | [SUPPLIED FROM MBV] |
| | | | | (RTL) |
| | | | | NV-HD660B |
| | | | | INCLUDED IN LUMI. & CHRO. |
| | | | | C. B. A. (VEP03D32H). |
| ■ | VEP03D54A | SQ PB (2) C. B. A. | 1 | [SUPPLIED FROM MBV] |
| | | | | (RTL) |
| | | | | NV-HD660B |
| | | | | INCLUDED IN LUMI. & CHRO. |
| | | | | C. B. A. (VEP03D32H). |
| ■ | VEP03D91A | REC CHROMA C. B. A. | 1 | [SUPPLIED FROM MBV] |
| | | | | (RTL) |
| | | | | NV-HD660B |
| | | | | INCLUDED IN LUMI. & CHRO. |
| | | | | C. B. A. (VEP03D32H). |
| ■ | VEP08171A | CNR C. B. A. | 1 | [SUPPLIED FROM MBV] |
| | | | | (RTL) |
| | | | | NV-HD660B |
| | | | | INCLUDED IN LUMI. & CHRO. |
| | | | | C. B. A. (VEP03D32H). |
| ■ | VEP04644C | HI-FI AUDIO PACK C. B. A. | 1 | [SUPPLIED FROM MBV] |
| | | | | (RTL) |
| | | | | NV-HD660B |
| | | | | INCLUDED IN MAIN C. B. A. |
| | | | | (VEP06B36K). |
| ■ | VEP07787K | NICAM DECODER PACK C. B. A. | 1 | [SUPPLIED FROM MBV] |
| | | | | (RTL) |
| | | | | NV-HD660B |
| | | | | INCLUDED IN MAIN C. B. A. |
| | | | | (VEP06B36K). |
| ■ | VEP07801Y | TV DEMODULATOR PACK C. B. A | 1 | [SUPPLIED FROM MBV] |
| | | | | (RTL) |
| | | | | NV-HD660B |
| | | | | INCLUDED IN MAIN C. B. A. |
| | | | | (VEP06B36K). |
| ■ | VEP06B36L | MAIN C. B. A. | 1 | [SUPPLIED FROM MBV] |
| | | (PAGE:4-24) | | (RTL) |
| | | | | NV-HD660EG |
| | | | | THE FOLLOWING C. B. A. S ARE |
| | | | | INCLUDED IN MAIN C. B. A. |
| | | | | VEP03D32C |
| | | | | VEP04644C |
| | | | | VEP07787J |
| | | | | VEP07801AB |
| ■ | VEP03D32C | LUMINANCH & CHROMINANCH | 1 | [SUPPLIED FROM MBV] |
| | | PACK C. B. A. | | (RTL) |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| | | | | NV-HD660EC |
| | | | | INCLUDED IN MAIN C.B.A. |
| | | | | (VEP06B36L). |
| | | | | THE FOLLOWING C.B.A.S |
| | | | | INCLUDED IN LUMI. |
| | | | | & CHRO. PACK C.B.A. |
| | | | | VEP03A03A |
| | | | | VEP03D54A |
| | | | | VEP03D91A |
| | | | | VEP08171A |
| ■ | VEP03A03A | SQ PB C.B.A. | 1 | [SUPPLIED FROM MBV] |
| | | | | (RTL) |
| | | | | NV-HD660EC |
| | | | | INCLUDED IN LUMI.& CHRO. |
| | | | | C.B.A. (VEP03D32C). |
| ■ | VEP03D54A | SQ PB (2) C.B.A. | 1 | [SUPPLIED FROM MBV] |
| | | | | (RTL) |
| | | | | NV-HD660EC |
| | | | | INCLUDED IN LUMI.& CHRO. |
| | | | | C.B.A. (VEP03D32C). |
| ■ | VEP03D91A | REC CHROMA C.B.A. | 1 | [SUPPLIED FROM MBV] |
| | | | | (RTL) |
| | | | | NV-HD660EC |
| | | | | INCLUDED IN LUMI.& CHRO. |
| | | | | C.B.A. (VEP03D32C). |
| ■ | VEP08171A | CNR C.B.A. | 1 | [SUPPLIED FROM MBV] |
| | | | | (RTL) |
| | | | | NV-HD660EC |
| | | | | INCLUDED IN LUMI.& CHRO. |
| | | | | C.B.A. (VEP03D32C). |
| ■ | VEP04644C | HI-FI AUDIO PACK C.B.A. | 1 | [SUPPLIED FROM MBV] |
| | | | | (RTL) |
| | | | | NV-HD660EC |
| | | | | INCLUDED IN MAIN C.B.A. |
| | | | | (VEP06B36L). |
| ■ | VEP07787J | NICAM DECODER PACK C.B.A. | 1 | [SUPPLIED FROM MBV] |
| | | | | (RTL) |
| | | | | NV-HD660EC |
| | | | | INCLUDED IN MAIN C.B.A. |
| | | | | (VEP06B36L). |
| ■ | VEP07801AB | TV DEMODULATOR PACK C.B.A. | 1 | [SUPPLIED FROM MBV] |
| | | | | (RTL) |
| | | | | NV-HD660EC |
| | | | | INCLUDED IN MAIN C.B.A. |
| | | | | (VEP06B36L). |
| ■ | VEP03D34C | INPUT/OUTPUT C.B.A. | 1 | [SUPPLIED FROM MBV] |
| | | (PAGE:4-31) | | (RTL) |
| | | | | NV-HD660EG/EGH/EC |
| ■ | VEP03D34D | INPUT/OUTPUT C.B.A. | 1 | [SUPPLIED FROM MBV] |
| | | (PAGE:4-32) | | (RTL) |
| | | | | NV-HD660B |
| ■ | VEP05329A | HEAD AMP C.B.A. | 1 | [SUPPLIED FROM MBV] |
| | | (PAGE:4-33) | | (RTL) |
| ■ | VEP07935A | TIMER C.B.A. | 1 | [SUPPLIED FROM MBV] |
| | | (PAGE:4-33) | | (RTL) |
| | | | | NV-HD660EG |
| ■ | VEP07935C | TIMER C.B.A. | 1 | [SUPPLIED FROM MBV] |
| | | (PAGE:4-34) | | (RTL) |
| | | | | NV-HD660EGH |
| ■ | VEP07935D | TIMER C.B.A. | 1 | [SUPPLIED FROM MBV] |
| | | (PAGE:4-35) | | (RTL) |
| | | | | NV-HD660B |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| ■ | VEP07935E | TIMER C.B.A. | 1 | [SUPPLIED FROM MBV] |
| | | (PAGE:4-35) | | (RTL) |
| | | | | NV-HD660EC |
| ■ | VEP06B38B | POWER SWITCH C.B.A. | 1 | [SUPPLIED FROM MBV] |
| | | (PAGE:4-36) | | (RTL) |
| ⚠ ■ | VEP01763A | POWER C.B.A. | 1 | [SUPPLIED FROM MBV] |
| | | (PAGE:4-36) | | (RTL) |
| | | | | NV-HD660EG/EGH |
| ⚠ ■ | VEP01763B | POWER C.B.A. | 1 | [SUPPLIED FROM MBV] |
| | | (PAGE:4-37) | | (RTL) |
| | | | | NV-HD660B/EC |
| ■ | VEX0231 | CYLINDER DRIVE C.B.A. | 1 | (RTL) |
| | | (PAGE:4-38) | | |
| ■ | ---------- | MOTOR C.B.A. | 1 | C.B.A. IS INCLUDED IN |
| | | (PAGE:4-38) | | LOADING MOTOR (1) UNIT |
| | | | | (VEM0427). |
| ⚠TU7601 | ENG47232GD | TUNER | 1 | [SUPPLIED FROM MBV] |
| | | | | NV-HD660EG/EGH/EC |
| ⚠TU7601 | ENG47211GR | TUNER | 1 | [SUPPLIED FROM MBV] |
| | | | | NV-HD660B |
| ⚠F1101 | XBA2G16TH15 | FUSE | 1 | |
| ■ | VEP06B36D | MAIN C.B.A. | | [SUPPLIED FROM MBV] |
| | | | | (RTL) |
| | | | | NV-HD660EG/EGH |
| C301 | ECUX1H101JCV | C.CAPACITOR CH 50V 100P | 1 | |
| C303 | ECUX1H331JCV | C.CAPACITOR CH 50V 330P | 1 | |
| C305 | ECUX1H102JCV | C.CAPACITOR CH 50V 1000P | 1 | |
| C306 | ECUX1H103ZFV | C.CAPACITOR CH 50V 0.01U | 1 | |
| C307 | ECEA1EKA4R7 | E.CAPACITOR 25V 4.7U | 1 | |
| C308 | ECUX1H102KBV | C.CAPACITOR CH 50V 1000P | 1 | |
| C309 | ECUX1H330JCV | C.CAPACITOR CH 50V 33P | 1 | |
| C310 | ECUX1E223KBV | C.CAPACITOR CH 25V 0.023U | 1 | |
| C311 | ECUM1E104KBN | C.CAPACITOR CH 25V 0.1U | 1 | |
| C312 | ECUX1H680JCV | C.CAPACITOR CH 50V 68P | 1 | |
| C313 | ECUX1H681JCV | C.CAPACITOR CH 50V 680P | 1 | |
| C314 | ECUM1H104ZFN | C.CAPACITOR CH 50V 0.1U | 1 | |
| C315 | ECUX1H103ZFV | C.CAPACITOR CH 50V 0.01U | 1 | |
| C316 | ECEA1HKA010 | E.CAPACITOR 50V 1U | 1 | |
| C317 | ECUX1C104KBV | C.CAPACITOR CH 16V 0.1U | 1 | |
| C318 | ECUX1C104ZFV | C.CAPACITOR CH 16V 0.1U | 1 | |
| C319 | ECUX1H222KBV | C.CAPACITOR CH 50V 2200P | 1 | |
| C320 | ECUX1C333KBV | C.CAPACITOR CH 16V 0.033U | 1 | |
| C321 | ECEA1HKA010 | E.CAPACITOR 50V 1U | 1 | |
| C322 | ECUX1H470JCV | C.CAPACITOR CH 50V 47P | 1 | |
| C323 | ECUX1H390JCV | C.CAPACITOR CH 50V 39P | 1 | |
| C324 | ECEA0JKA101 | E.CAPACITOR 6.3V 100U | 1 | |
| C325 | ECUX1H103ZFV | C.CAPACITOR CH 50V 0.01U | 1 | |
| C327 | ECUX1C104ZFV | C.CAPACITOR CH 16V 0.1U | 1 | |
| C328 | ECUM1H104ZFN | C.CAPACITOR CH 50V 0.1U | 1 | |
| C329,30 | ECEA1EKA4R7 | E.CAPACITOR 25V 4.7U | 2 | |
| C331 | ECUM1H103ZFN | C.CAPACITOR CH 50V 0.01U | 1 | |
| C332 | ECEA1CKA100 | E.CAPACITOR 16V 10U | 1 | |
| C333 | ECUX1H080DCV | C.CAPACITOR CH 50V 8P | 1 | |
| C334 | ECUX1H270JCV | C.CAPACITOR CH 50V 27P | 1 | |
| C335 | ECUX1H680JCV | C.CAPACITOR CH 50V 68P | 1 | |
| C336 | ECUX1H180JCV | C.CAPACITOR CH 50V 18P | 1 | |
| C337 | ECEA1CKA100 | E.CAPACITOR 16V 10U | 1 | |
| C338 | ECUX1C104ZFV | C.CAPACITOR CH 16V 0.1U | 1 | |
| C339 | ECUX1H470JCV | C.CAPACITOR CH 50V 47P | 1 | |
| C340 | ECEA1CKA100 | E.CAPACITOR 16V 10U | 1 | |
| C341 | ECUX1E223KBV | C.CAPACITOR CH 25V 0.023U | 1 | |
| C342 | ECEA1EKA4R7 | E.CAPACITOR 25V 4.7U | 1 | |
| C343 | ECEA1EKN4R7 | E.CAPACITOR 25V 4.7U | 1 | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| C344 | ECUX1C104ZFV | C. CAPACITOR CH 16V 0.1U | 1 | |
| C345, 46 | ECUX1H103ZFV | C. CAPACITOR CH 50V 0.01U | 2 | |
| C347 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C348 | ECEA1CKA101 | E. CAPACITOR 16V 100U | 1 | |
| C349 | ECUX1C104ZFV | C. CAPACITOR CH 16V 0.1U | 1 | |
| C350 | ECUX1H152KBV | C. CAPACITOR CH 50V 1500P | 1 | |
| C351 | ECUX1H392KBV | C. CAPACITOR CH 50V 3900P | 1 | |
| C352 | ECEA0JKA470 | E. CAPACITOR 6.3V 47U | 1 | |
| C353 | ECUX1H820JCV | C. CAPACITOR CH 50V 82P | 1 | |
| C354 | ECUX1H470JCV | C. CAPACITOR CH 50V 47P | 1 | |
| C355 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C362, 63 | ECUX1H103ZFV | C. CAPACITOR CH 50V 0.01U | 2 | |
| C364 | ERJ6GEY0R00 | M. RESISTOR CH 1/10W 0 | 1 | |
| C365 | ECUX1H103ZFV | C. CAPACITOR CH 50V 0.01U | 1 | |
| C367 | ECUX1H560JCV | C. CAPACITOR CH 50V 56P | 1 | |
| C368, 69 | ECUX1H103ZFV | C. CAPACITOR CH 50V 0.01U | 2 | |
| C370 | ECUX1H560JCV | C. CAPACITOR CH 50V 56P | 1 | |
| C371 | ECUX1H103ZFV | C. CAPACITOR CH 50V 0.01U | 1 | |
| C372 | ECUX1H470JCV | C. CAPACITOR CH 50V 47P | 1 | |
| C373, 74 | ECUX1H103ZFV | C. CAPACITOR CH 50V 0.01U | 2 | |
| C375 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C376 | ECUX1H331JCV | C. CAPACITOR CH 50V 330P | 1 | |
| C377 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C378 | ECUX1H103ZFV | C. CAPACITOR CH 50V 0.01U | 1 | |
| C379 | ECEA0JKA101 | E. CAPACITOR 6.3V 100U | 1 | |
| C380 | ECUX1H470JCV | C. CAPACITOR CH 50V 47P | 1 | |
| C381 | ECUX1H103ZFV | C. CAPACITOR CH 50V 0.01U | 1 | |
| C382 | ECUX1C104ZFV | C. CAPACITOR CH 16V 0.1U | 1 | |
| C383 | ECQB1H332JF | P. CAPACITOR 50V 3300P | 1 | |
| C0701, 02 | ECUX1H103ZFV | C. CAPACITOR CH 50V 0.01U | 2 | |
| C0704 | ECUX1H331JCV | C. CAPACITOR CH 50V 330P | 1 | |
| C0706 | ECEA1HKA0R1 | E. CAPACITOR 50V 0.1U | 1 | |
| C0707, 08 | ECUX1H103ZFV | C. CAPACITOR CH 50V 0.01U | 2 | |
| C0709 | ECUX1H120JCV | C. CAPACITOR CH 50V 12P | 1 | |
| C0710 | ECUX1H470JPV | C. CAPACITOR CH 50V 47P | 1 | |
| C0711 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 1 | |
| C0712 | ECUX1H103ZFV | C. CAPACITOR CH 50V 0.01U | 1 | |
| C0714 | ECQB1H473JF | P. CAPACITOR 50V 0.047U | 1 | |
| C0715 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C0716 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 1 | |
| C0717 | ECUX1H270JPV | C. CAPACITOR CH 50V 27P | 1 | |
| C0718 | ECEA1HKAR47 | E. CAPACITOR 50V 0.47U | 1 | |
| C0719 | ECUX1H270JCV | C. CAPACITOR CH 50V 27P | 1 | |
| C0720 | ECUX1H103ZFV | C. CAPACITOR CH 50V 0.01U | 1 | |
| C0723 | ECEA1HKA0R1 | E. CAPACITOR 50V 0.1U | 1 | |
| C0726 | ECUX1H103ZFV | C. CAPACITOR CH 50V 0.01U | 1 | |
| C0730 | ECUX1H103ZFV | C. CAPACITOR CH 50V 0.01U | 1 | |
| C0732 | ECUX1H103ZFV | C. CAPACITOR CH 50V 0.01U | 1 | |
| C851 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 1 | |
| C852, 53 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 2 | |
| C854 | ECEA1HKA0R1 | E. CAPACITOR 50V 0.1U | 1 | |
| C855, 56 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 2 | |
| C857 | ECEA1HKA0R1 | E. CAPACITOR 50V 0.1U | 1 | |
| C858 | ECUM1H472KBN | C. CAPACITOR CH 50V 4700P | 1 | |
| C859 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C860, 61 | ECEA1HKA010 | E. CAPACITOR 50V 1U | 2 | |
| C862, 63 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 2 | |
| C864 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 1 | |
| C865 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C867 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C1001 | ECA1CM101 | E. CAPACITOR 16V 100U | 1 | |
| C1002 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C1003 | ECA1CM470 | E. CAPACITOR 16V 47U | 1 | |
| C1004 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C1005 | ECEA0JKA220 | E. CAPACITOR 6.3V 22U | 1 | |
| C1006 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C1007 | ECEA0JKA101 | E. CAPACITOR 6.3V 100U | 1 | |
| C1008 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C1009 | ECEA0JKA220 | E. CAPACITOR 6.3V 22U | 1 | |
| C1010 | ECEA0JKA101 | E. CAPACITOR 6.3V 100U | 1 | |
| C1011 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C1012 | ECEA0JKA101 | E. CAPACITOR 6.3V 100U | 1 | |
| C1013 | ECEA0JKA220 | E. CAPACITOR 6.3V 22U | 1 | |
| C2001 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C2002, 03 | ECUM1H102KBN | C. CAPACITOR CH 50V 1000P | 2 | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| C2004 | ECUM1H223KBN | C. CAPACITOR CH 50V 0.022U | 1 | |
| C2005 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C2006 | ECUM1H392KBN | C. CAPACITOR CH 50V 3900P | 1 | |
| C2007 | ECUM1H472KBN | C. CAPACITOR CH 50V 4700P | 1 | |
| C2008 | ECQV1H683JM | P. CAPACITOR 50V 0.068U | 1 | |
| C2009 | ECEA0JKA221 | E. CAPACITOR 6.3V 220U | 1 | |
| C2010 | ECUM1H471JCN | C. CAPACITOR CH 50V 470P | 1 | |
| C2011 | ECEA0JKA221 | E. CAPACITOR 6.3V 220U | 1 | |
| C2012 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 1 | |
| C2013 | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P | 1 | |
| C2014 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C2015 | ECEA0JKA470 | E. CAPACITOR 6.3V 47U | 1 | |
| C2016, 17 | ECEA1EKN3R3 | E. CAPACITOR 25V 3.3U | 2 | |
| C2018 | ECEA1EKA4R7 | E. CAPACITOR 25V 4.7U | 1 | |
| C2019, 20 | ECUM1H102KBN | C. CAPACITOR CH 50V 1000P | 2 | |
| C2021, 22 | ECUM1C105ZFN | C. CAPACITOR CH 16V 1U | 2 | |
| C2023 | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P | 1 | |
| C2024, 25 | ECEA1HKA2R2 | E. CAPACITOR 50V 2.2U | 2 | |
| C2026 | ECEA1HKNR22 | E. CAPACITOR 50V 0.22U | 1 | |
| C2027 | ECA1EM470 | E. CAPACITOR 25V 47U | 1 | |
| C2028 | ECEA1HKA010 | E. CAPACITOR 50V 1U | 1 | |
| C2029 | ECA1EM470 | E. CAPACITOR 25V 47U | 1 | |
| C2030, 31 | ECUM1E333KBN | C. CAPACITOR CH 25V 0.033U | 2 | |
| C2032 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C2033 | ECA0JM221 | E. CAPACITOR 6.3V 220U | 1 | |
| C2035 | ECUM1E333KBN | C. CAPACITOR CH 25V 0.033U | 1 | |
| C2036 | ECQV1H683JM | P. CAPACITOR 50V 0.068U | 1 | |
| C2037 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C2038-40 | ECUM1E333KBN | C. CAPACITOR CH 25V 0.033U | 3 | |
| C2041, 42 | ECUM1H680JCN | C. CAPACITOR CH 50V 68P | 2 | |
| C2043, 44 | ECUM1C474ZFN | C. CAPACITOR CH 16V 0.47U | 2 | |
| C2045 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C2046 | ECEA1HKA2R2 | E. CAPACITOR 50V 2.2U | 1 | |
| C2053 | ECEA1HKAR47 | E. CAPACITOR 50V 0.47U | 1 | |
| C3001 | ECUM1H620JCN | C. CAPACITOR CH 50V 62P | 1 | |
| C3002 | ECUM1H181JCN | C. CAPACITOR CH 50V 180P | 1 | |
| C3003 | ECUM1H220JCN | C. CAPACITOR CH 50V 22P | 1 | |
| C3004 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C3006 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C3007 | ECEA0JKA221 | E. CAPACITOR 6.3V 220U | 1 | |
| C3008 | ECUM1H102KBN | C. CAPACITOR CH 50V 1000P | 1 | |
| C3009 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C3010 | ECUM1C105ZFN | C. CAPACITOR CH 16V 1U | 1 | |
| C3017, 18 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 2 | |
| C3019 | ECUM1H620JCN | C. CAPACITOR CH 50V 62P | 1 | |
| C3021 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C3023 | ECEA1CKA470 | E. CAPACITOR 16V 47U | 1 | |
| C3024 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C3027 | ECEA0JKA470 | E. CAPACITOR 6.3V 47U | 1 | |
| C3028 | ECUM1H151JCN | C. CAPACITOR CH 50V 150P | 1 | |
| C3029 | ECUM1H220JCN | C. CAPACITOR CH 50V 22P | 1 | |
| C3031 | ECUM1H220JCN | C. CAPACITOR CH 50V 22P | 1 | |
| C3032 | ECUM1H681JCN | C. CAPACITOR CH 50V 680P | 1 | |
| C3033 | ECUM1H330JCN | C. CAPACITOR CH 50V 33P | 1 | |
| C3043 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C3046, 47 | ECUM1H102KBN | C. CAPACITOR CH 50V 1000P | 2 | |
| C3055 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C3057 | ECUM1H180JCN | C. CAPACITOR CH 50V 18P | 1 | |
| C3061 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C3062 | ECEA0JKA470 | E. CAPACITOR 6.3V 47U | 1 | |
| C3063 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 1 | |
| C3066 | ECKF1H102KB | C. CAPACITOR 50V 1000P | 1 | |
| C4002-04 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 3 | |
| C4005 | ECCD2H181J | C. CAPACITOR 500V 180P | 1 | |
| C4006 | ECEA1CKA330 | E. CAPACITOR 16V 33U | 1 | |
| C4007 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C4009 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 1 | |
| C4010 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C4011 | ECQP1222JZ | P. CAPACITOR 100V 2200P | 1 | |
| C4012 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C4013 | ECUM1H472KBN | C. CAPACITOR CH 50V 4700P | 1 | |
| C4014 | ECQP1203JZ3 | P. CAPACITOR 100V 0.02U | 1 | [SUPPLIED FROM MBV] |
| C4015 | ECUM1H391JCN | C. CAPACITOR CH 50V 390P | 1 | |
| C4016 | ECEA1CKA330 | E. CAPACITOR 16V 33U | 1 | |
| C4017 | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 1 | |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| C4018-20 | ECEA1HKA0R1 | E. CAPACITOR 50V 0.1U | 3 | |
| C4021 | ECUM1H153KBN | C. CAPACITOR CH 50V 0.015U | 1 | |
| C4022 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C4023 | ECUM1C105ZFN | C. CAPACITOR CH 16V 1U | 1 | |
| C4024 | ECUM1H272KBN | C. CAPACITOR CH 50V 2700P | 1 | |
| C4025, 26 | ECEA1CKA220 | E. CAPACITOR 16V 22U | 2 | |
| C4027 | ECEA1HKA3R3 | E. CAPACITOR 50V 3.3U | 1 | |
| C4028 | ECEA1CKA470 | E. CAPACITOR 16V 47U | 1 | |
| C4029 | ECUM1H391JCN | C. CAPACITOR CH 50V 390P | 1 | |
| C4030 | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 1 | |
| C4031 | ECEA1AKA101 | E. CAPACITOR 10V 100U | 1 | |
| C4032 | ECUM1H822KBN | C. CAPACITOR CH 50V 8200P | 1 | |
| C4033, 34 | ECUM1H471JCN | C. CAPACITOR CH 50V 470P | 2 | |
| C4038 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C4039 | ECUM1H220JCN | C. CAPACITOR CH 50V 22P | 1 | |
| C4040 | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 1 | |
| C4041 | ECUM1H151JCN | C. CAPACITOR CH 50V 150P | 1 | |
| C4042 | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P | 1 | |
| C4044 | ECEA1HKA4R7 | E. CAPACITOR 50V 4.7U | 1 | |
| C4501 | ECUX1H681JCV | C. CAPACITOR CH 50V 680P | 1 | |
| C4502 | ECUX1H561JCV | C. CAPACITOR CH 50V 560P | 1 | |
| C4503 | ECUX1H102KBV | C. CAPACITOR CH 50V 1000P | 1 | |
| C4506 | ECEA1CU100 | E. CAPACITOR 16V 10U | 1 | |
| C4507 | ECQB1H223JF | P. CAPACITOR 50V 0.022U | 1 | |
| C4508 | ECEA1EU4R7 | E. CAPACITOR 25V 4.7U | 1 | |
| C4509 | ECEA1AU470 | E. CAPACITOR 10V 47U | 1 | |
| C4510 | ECQB1H103JF | P. CAPACITOR 50V 0.01U | 1 | |
| C4511 | ECQB1H332JF | P. CAPACITOR 50V 3300P | 1 | |
| C4512 | ECUX1H561JCV | C. CAPACITOR CH 50V 560P | 1 | |
| C4513 | ECUM1H681JCN | C. CAPACITOR CH 50V 680P | 1 | |
| C4514 | ECUM1H561JCN | C. CAPACITOR CH 50V 560P | 1 | |
| C4515 | ECEA1EU4R7 | E. CAPACITOR 25V 4.7U | 1 | |
| C4521 | ECUM1H473KBN | C. CAPACITOR CH 50V 0.047U | 1 | |
| C4522 | ECEA1EU4R7 | E. CAPACITOR 25V 4.7U | 1 | |
| C4530 | ECEA0JU470 | E. CAPACITOR 6.3V 47U | 1 | |
| C4533 | ECEA1AU470 | E. CAPACITOR 10V 47U | 1 | |
| C4537 | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 1 | |
| C4538 | ECEA1HUR47 | E. CAPACITOR 50V 0.47U | 1 | |
| C4541 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C4551 | ECQB1H223JF | P. CAPACITOR 50V 0.022U | 1 | |
| C4556 | ECEA1CU100 | E. CAPACITOR 16V 10U | 1 | |
| C4558 | ECEA1EU4R7 | E. CAPACITOR 25V 4.7U | 1 | |
| C4559 | ECEA1AU470 | E. CAPACITOR 10V 47U | 1 | |
| C4560 | ECQB1H103JF | P. CAPACITOR 50V 0.01U | 1 | |
| C4561 | ECQB1H332JF | P. CAPACITOR 50V 3300P | 1 | |
| C4562 | ECUX1H561JCV | C. CAPACITOR CH 50V 560P | 1 | |
| C4565 | ECEA1EU4R7 | E. CAPACITOR 25V 4.7U | 1 | |
| C4568 | ECFF1H104ZF5 | C. CAPACITOR 50V 0.1U | 1 | |
| C4572 | ECEA1EU4R7 | E. CAPACITOR 25V 4.7U | 1 | |
| C4576 | ECUM1H473KBN | C. CAPACITOR CH 50V 0.047U | 1 | |
| C4585, 86 | ECEA0JU101 | E. CAPACITOR 6.3V 100U | 2 | |
| C4587 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C4591 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C4592 | ECUX1H102KBV | C. CAPACITOR CH 50V 1000P | 1 | |
| C4671, 72 | ECEA1CU100 | E. CAPACITOR 16V 10U | 2 | |
| C4674 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C4675 | ECFF1H104ZF5 | C. CAPACITOR 50V 0.1U | 1 | |
| C4676 | ECA1VM470 | E. CAPACITOR 35V 47U | 1 | |
| C4677 | ECEA1CU470 | E. CAPACITOR 16V 47U | 1 | |
| C5005 | ECEA1HKA3R3 | E. CAPACITOR 50V 3.3U | 1 | |
| C5006 | ECUM1H150JCN | C. CAPACITOR CH 50V 15P | 1 | |
| C5007-09 | ECUM1H330JCN | C. CAPACITOR CH 50V 33P | 3 | |
| C5012, 13 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 2 | |
| C5014 | ECEA0JKA470 | E. CAPACITOR 6.3V 47U | 1 | |
| C5015, 16 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 2 | |
| C5701 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C5702 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 1 | |
| C5703 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C5704 | ECEA0JKA221 | E. CAPACITOR 6.3V 220U | 1 | |
| C5705, 06 | ECUM1H121JCN | C. CAPACITOR CH 50V 120P | 2 | |
| C5707 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C5708, 09 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 2 | |
| C5710 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C5801 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 1 | |
| C5802 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| C5803 | ECEA0JKA470 | E. CAPACITOR 6.3V 47U | 1 | |
| C5804 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C5805 | ECUX1H050DCN | C. CAPACITOR CH 50V 5P | 1 | |
| C5806 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C5807 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C6001 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C6002 | ECUM1C224ZFN | C. CAPACITOR CH 16V 0.22U | 1 | |
| C6003 | ECEA1HKA2R2 | E. CAPACITOR 50V 2.2U | 1 | |
| C6004 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C6005 | ECEA0JKA470 | E. CAPACITOR 6.3V 47U | 1 | |
| C6006 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C6007 | ECEA0JKA101 | E. CAPACITOR 6.3V 100U | 1 | |
| C6008 | ECUM1H270JCN | C. CAPACITOR CH 50V 27P | 1 | |
| C6009 | ECUM1H150JCN | C. CAPACITOR CH 50V 15P | 1 | |
| C6010 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C6011-14 | ECUM1H271JCN | C. CAPACITOR CH 50V 270P | 4 | |
| C6015 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 1 | |
| C6016 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C6017 | ECUX1H561JCN | C. CAPACITOR CH 50V 560P | 1 | |
| C6018 | ECUM1H104ZFM | C. CAPACITOR CH 50V 0.1U | 1 | |
| C6024 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C7302 | ECEA1HKN2R2 | E. CAPACITOR 50V 2.2U | 1 | |
| C7304 | ECEA1HKN2R2 | E. CAPACITOR 50V 2.2U | 1 | |
| C7308 | ECUM1H181JCN | C. CAPACITOR CH 50V 180P | 1 | |
| C7309 | ECUM1H152KBN | C. CAPACITOR CH 50V 1500P | 1 | |
| C7310 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 1 | |
| C7311 | ECEA1CKA101 | E. CAPACITOR 16V 100U | 1 | |
| C7312 | ECQB1H103JZ | P. CAPACITOR 50V 0.01U | 1 | |
| C7313 | ECQV1H104JM | P. CAPACITOR 50V 0.1U | 1 | |
| C7314, 15 | ECQB1H103JZ | P. CAPACITOR 50V 0.01U | 2 | |
| C7320, 21 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 2 | |
| C7323, 24 | ECUM1H153KBM | C. CAPACITOR CH 50V 0.015U | 2 | |
| C7325 | ECUX1H223KBM | C. CAPACITOR CH 50V 0.022U | 1 | |
| C7326 | ECEA1CKN100 | E. CAPACITOR 16V 10U | 1 | |
| C7328 | ECEA1CKA470 | E. CAPACITOR 16V 47U | 1 | |
| C7330 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 1 | |
| C7332, 33 | ECUX1H102KBV | C. CAPACITOR CH 50V 1000P | 2 | |
| C7337 | ECUX1H103ZFV | C. CAPACITOR CH 50V 0.01U | 1 | |
| C7339 | ECUX1H103ZFV | C. CAPACITOR CH 50V 0.01U | 1 | |
| C7340 | ECUM1H390JPN | C. CAPACITOR CH 50V 39P | 1 | |
| C7341 | ECUX1H070DCV | C. CAPACITOR CH 50V 7P | 1 | |
| C7345 | ECUX1H103ZFV | C. CAPACITOR CH 50V 0.01U | 1 | |
| C7346 | ECUM1H390JPN | C. CAPACITOR CH 50V 39P | 1 | |
| C7347 | ECUX1H070DCV | C. CAPACITOR CH 50V 7P | 1 | |
| C7349, 50 | ECUX1H221JCV | C. CAPACITOR CH 50V 220P | 2 | |
| C7352 | ECUX1H103ZFV | C. CAPACITOR CH 50V 0.01U | 1 | |
| C7353 | ECEA1CKA470 | E. CAPACITOR 16V 47U | 1 | |
| C7601, 02 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 2 | |
| C7603 | ECEA1CKA101 | E. CAPACITOR 16V 100U | 1 | |
| C7604 | ECEA0JKA101 | E. CAPACITOR 6.3V 100U | 1 | |
| C7605 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C7606 | ECEA1CKA101 | E. CAPACITOR 16V 100U | 1 | |
| C7607 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C7608 | ECUM1C105ZFN | C. CAPACITOR CH 16V 1U | 1 | |
| C7609 | ECEA0JKA101 | E. CAPACITOR 6.3V 100U | 1 | |
| C7610, 11 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 2 | |
| C7612 | ECEA0JKA101 | E. CAPACITOR 6.3V 100U | 1 | |
| C7613 | ECUM1H180JCN | C. CAPACITOR CH 50V 18P | 1 | |
| C7614 | ECEA1HKA100 | E. CAPACITOR 50V 10U | 1 | |
| C7615 | ECEA1HKA010 | E. CAPACITOR 50V 1U | 1 | |
| C7616 | ECUM1E104KBN | C. CAPACITOR CH 25V 0.1U | 1 | |
| C7617 | ECEA1AKS221 | E. CAPACITOR 10V 220U | 1 | |
| C7701 | ECUM1H150JCN | C. CAPACITOR CH 50V 15P | 1 | |
| C7702 | ECUM1H080DCN | C. CAPACITOR CH 50V 8P | 1 | |
| C7703 | ECUM1C224ZFN | C. CAPACITOR CH 16V 0.22U | 1 | |
| C7704, 05 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 2 | |
| C7706 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C7707-10 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 4 | |
| C7712 | ECEA0JKA470 | E. CAPACITOR 6.3V 47U | 1 | |
| C7713 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 1 | |
| C7714 | ECEA0JKA470 | E. CAPACITOR 6.3V 47U | 1 | |
| C7715 | ECEA1CKN100 | E. CAPACITOR 16V 10U | 1 | |
| C7716 | ECUM1H120JCN | C. CAPACITOR CH 50V 12P | 1 | |
| C7718 | ECUX1H561JCN | C. CAPACITOR CH 50V 560P | 1 | |
| C7719 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| C7720 | ECEA0JKA470 | E. CAPACITOR 6.3V 47U | 1 | |
| C7721 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C7722 | ECUM1H270JCN | C. CAPACITOR CH 50V 27P | 1 | |
| C7723 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C7724 | ECEA0JKA470 | E. CAPACITOR 6.3V 47U | 1 | |
| C7727 | ECEA0JKA470 | E. CAPACITOR 6.3V 47U | 1 | |
| C7729 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C7731 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C7732 | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 1 | |
| C7734 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C7736 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C7737 | ECEA0JKA470 | E. CAPACITOR 6.3V 47U | 1 | |
| C7738, 39 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 2 | |
| C7742 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C7743 | ECUM1C105ZFN | C. CAPACITOR CH 16V 1U | 1 | |
| C7744 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C7745 | ECUM1C224ZFN | C. CAPACITOR CH 16V 0.22U | 1 | |
| C7746, 47 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 2 | |
| C7748 | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 1 | |
| C7749 | ECUM1H473ZFN | C. CAPACITOR CH 50V 0.047U | 1 | |
| C7750 | ECUM1C224ZFN | C. CAPACITOR CH 16V 0.22U | 1 | |
| | | | | |
| D301 | MA723 | DIODE | 1 | |
| D303 | 1SS355 | DIODE | 1 | |
| D305 | 1SS355 | DIODE | 1 | |
| D306 | 1SS254 | DIODE | 1 | |
| D307 | 1SS355 | DIODE | 1 | |
| D310, 11 | 1SS355 | DIODE | 2 | |
| D313, 14 | 1SS355 | DIODE | 2 | |
| D315, 16 | 1SS254 | DIODE | 2 | |
| D317, 18 | 1SS355 | DIODE | 2 | |
| D319, 20 | MA151WK | DIODE | 2 | |
| D321 | 1SS355 | DIODE | 1 | |
| D1001 | MA4051-L | DIODE | 1 | |
| D1003 | MA4120-M | DIODE | 1 | |
| D1004 | MA4051-L | DIODE | 1 | |
| D1005 | 1SS355 | DIODE | 1 | |
| D1007, 08 | 1SS355 | DIODE | 2 | |
| D1009 | 1SS254 | DIODE | 1 | |
| D2001 | MA153 | DIODE | 1 | |
| D2002 | MA151K | DIODE | 1 | |
| D2003-05 | 1SS355 | DIODE | 3 | |
| D2006, 07 | MA700 | DIODE | 2 | |
| D2008, 09 | MA185 | DIODE | 2 | |
| D3001-03 | 1SS254 | DIODE | 3 | |
| D3005 | MA723 | DIODE | 1 | |
| D3015 | 1SS355 | DIODE | 1 | |
| D3016 | MA700A | DIODE | 1 | |
| D4001 | 1SS254 | DIODE | 1 | |
| D4003-05 | 1SS254 | DIODE | 3 | |
| D4504 | 1SS254 | DIODE | 1 | |
| D5801-04 | 1SS355 | DIODE | 4 | |
| D6001 | LN59LT. VT | LED | 1 | |
| D6002 | MA4075-L | DIODE | 1 | |
| D6003 | MA151K | DIODE | 1 | |
| D6006 | MA151K | DIODE | 1 | |
| D6007, 08 | 1SS254 | DIODE | 2 | |
| D7304 | MA29T-B | DIODE | 1 | |
| D7305 | 1SS254 | DIODE | 1 | |
| D7307 | MA151K | DIODE | 1 | |
| D7601 | MA4300-M | DIODE | 1 | |
| D7602, 03 | 1SS254 | DIODE | 2 | |
| D7702, 03 | 1SS355 | DIODE | 2 | |
| D7704 | MA700A | DIODE | 1 | |
| | | | | |
| DL301 | VLD0198 | DELAY LINE | 1 | |
| DL7701 | ELB4Y026 | FILTER | 1 | |
| | | | | |
| IC301 | TDA9725 | IC | 1 | [SUPPLIED FROM MBV] |
| IC302 | MSM7403MS | IC | 1 | |
| IC303 | M52352FP | IC | 1 | |
| IC0701 | LA7576 | IC | 1 | |
| IC851 | TA1225N | IC | 1 | |
| IC1001 | HA17431PA | IC | 1 | |
| IC2001 | BA6887-V3 | IC | 1 | |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| IC2002 | BA6871BS | IC | 1 | |
| IC4001 | BA7795FS | IC | 1 | |
| IC4501 | BH7778AK | IC | 1 | |
| IC4502 | MC14052BF | IC | 1 | |
| IC4503 | BA7735FS | IC | 1 | [SUPPLIED FROM MBV] |
| IC5701 | MM1188XS | IC | 1 | [SUPPLIED FROM MBV] |
| IC6001 | MN6755486H4N | IC | 1 | [SUPPLIED FROM MBV] |
| IC6002, 03 | ON1387 | IC | 2 | |
| IC7301 | TDA9845 | IC | 1 | |
| IC7302 | TA8721SN | IC | 1 | |
| IC7701 | M27C512MBUA | IC | 1 | [SUPPLIED FROM MBV] |
| IC7702 | 74HCT573D | IC | 1 | |
| IC7703 | NJM2535M | IC | 1 | [SUPPLIED FROM MBV] |
| IC7704 | ST24W16FB6 | IC | 1 | [SUPPLIED FROM MBV] |
| IC7705 | TDA8501 | IC | 1 | |
| IC7706 | P83C528MAAC | IC | 1 | [SUPPLIED FROM MBV] |
| IC7707 | MC74HC164FL2 | IC | 1 | |
| IC7708 | SAA5281ZPM3 | IC | 1 | |
| IC7709 | MC74HC161AF2 | IC | 1 | |
| IC7710 | UPC393G2 | IC | 1 | |
| IC7711 | PST7043 | IC | 1 | |
| | | | | |
| K309 | ERJ6GEY0R00 | M. RESISTOR CH 1/10W 0 | 1 | |
| K315 | ERJ6GEY0R00 | M. RESISTOR CH 1/10W 0 | 1 | |
| K318 | ERJ3GEY0R00 | M. RESISTOR CH 1/16W 0 | 1 | |
| K0702 | ERJ3GEY0R00 | M. RESISTOR CH 1/16W 0 | 1 | |
| K0704, 05 | ERJ3GEY0R00 | M. RESISTOR CH 1/16W 0 | 2 | |
| K3005 | ERJ6GMZ0R00 | M. RESISTOR CH 1/10W 0 | 1 | |
| K3040 | ERJ6GMZ0R00 | M. RESISTOR CH 1/10W 0 | 1 | |
| K4001 | ERJ6GMZ0R00 | M. RESISTOR CH 1/10W 0 | 1 | |
| K4003 | ERJ6GMZ0R00 | M. RESISTOR CH 1/10W 0 | 1 | |
| K4009 | ERJ6GMZ0R00 | M. RESISTOR CH 1/10W 0 | 1 | |
| K4503, 04 | ERJ3GEY0R00 | M. RESISTOR CH 1/16W 0 | 2 | |
| K4651 | ERJ6GEY0R00 | M. RESISTOR CH 1/10W 0 | 1 | |
| K5801 | ERJ6GEY0R00 | M. RESISTOR CH 1/10W 0 | 1 | |
| K6001, 02 | ERJ6GMZ0R00 | M. RESISTOR CH 1/10W 0 | 2 | |
| K7302 | ERJ3GEY0R00 | M. RESISTOR CH 1/16W 0 | 1 | |
| K7316 | ERJ6GEY0R00 | M. RESISTOR CH 1/10W 0 | 1 | |
| K7604 | ERJ6GMZ0R00 | M. RESISTOR CH 1/10W 0 | 1 | |
| K7619 | ERJ6GMZ0R00 | M. RESISTOR CH 1/10W 0 | 1 | |
| K7704 | ERJ6GMZ0R00 | M. RESISTOR CH 1/10W 0 | 1 | |
| K7706 | ERJ6GMZ0R00 | M. RESISTOR CH 1/10W 0 | 1 | |
| K7709 | ERJ6GMZ0R00 | M. RESISTOR CH 1/10W 0 | 1 | |
| | | | | |
| L301 | VLQ0599J151 | COIL 150UH | 1 | |
| L302 | VLQ0599J6R8 | COIL 6.8UH | 1 | |
| L303 | VLQ0599J100 | COIL 10UH | 1 | |
| L304 | VLQ0599J390 | COIL 39UH | 1 | |
| L305 | VLQ0599J680 | COIL 68UH | 1 | |
| L306, 07 | VLQ0599J390 | COIL 39UH | 2 | |
| L308 | VLQ0599J150 | COIL 15UH | 1 | |
| L309 | VLQ0599J470 | COIL 47UH | 1 | |
| L311 | VLQ0599J150 | COIL 15UH | 1 | |
| L312 | VLQ0599J680 | COIL 68UH | 1 | |
| L0701, 02 | ELJNAR10MF | COIL 0.1UH | 2 | |
| L0705 | VLQ0163J5R6 | COIL 5.6UH | 1 | |
| L0706 | VLQEL05S120K | COIL 12UH | 1 | |
| L851, 52 | VLQ0599J680 | COIL 68UH | 2 | |
| L853-57 | ERJ6GMZ0R00 | M. RESISTOR CH 1/10W 0 | 5 | |
| L2001 | VLP0083 | COIL | 1 | |
| L3001 | VLQ0599J820 | COIL 82UH | 1 | |
| L3002 | VLQ0599J151 | COIL 150UH | 1 | |
| L3003 | VLQ0599J6R8 | COIL 6.8UH | 1 | |
| L3004 | VLQ0599J120 | COIL 12UH | 1 | |
| L3006 | VLQ0599J101 | COIL 100UH | 1 | |
| L3008 | VLQ0599J270 | COIL 27UH | 1 | |
| L3009 | VLQ0599J680 | COIL 68UH | 1 | |
| L3012 | VLQ0599J680 | COIL 68UH | 1 | |
| L3013 | VLP0099 | COIL | 1 | |
| L4001 | ELESE101KA | COIL 100UH | 1 | |
| L4002 | ELESN471KA | COIL 470UH | 1 | |
| L4003 | VLQ0599J680 | COIL 68UH | 1 | |
| L4005, 06 | VLP0150 | COIL | 2 | |
| L4007 | VLQ0123 | COIL | 1 | |
| L5001 | VLQ0599J680 | COIL 68UH | 1 | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| L5002,03 | VLQ0599J270 | COIL 27UH | 2 | |
| L5004 | VLQ0599J150 | COIL 15UH | 1 | |
| L5701 | VLQ0599J680 | COIL 68UH | 1 | |
| L5702 | VLQ0599J101 | COIL 100UH | 1 | |
| L5801 | ELESE101KA | COIL 100UH | 1 | |
| L6001 | ELESE101KA | COIL 100UH | 1 | |
| L6002 | VLP0083 | COIL | 1 | |
| L6003,04 | VLQ0599J680 | COIL 68UH | 2 | |
| L7601,02 | VLQ0599J1R0 | COIL 1UH | 2 | |
| L7603-05 | VLQ0599J680 | COIL 68UH | 3 | |
| L7606 | VLQ0599J2R2 | COIL 2.2UH | 1 | |
| L7607,08 | VLQ0599J680 | COIL 68UH | 2 | |
| L7701 | VLQ0599J100 | COIL 10UH | 1 | |
| L7702 | VLQ0599J3R3 | COIL 3.3UH | 1 | |
| L7703 | VLQ0599J270 | COIL 27UH | 1 | |
| L7704 | VLQ0599J100 | COIL 10UH | 1 | |
| L7705 | VLQ0599J101 | COIL 100UH | 1 | |
| L7707 | VLQ0599J120 | COIL 12UH | 1 | |
| | | | | |
| LB5701 | ERJ6GEY0R00 | M.RESISTOR CH 1/10W 0 | 1 | |
| | | | | |
| P851 | VJR0777B011W | CONNECTOR (MALE) 11P | 1 | |
| P2001 | VJS3640A002 | CONNECTOR (FEMALE) 2P | 1 | |
| P2002 | VJS3537A015G | CONNECTOR (FEMALE) 15P | 1 | |
| P2003 | VJP3502 | CONNECTOR (MALE) | 1 | |
| P2004 | VJP1232T | CONNECTOR (MALE) 5P | 1 | |
| P3002 | VJS3537A020G | CONNECTOR (FEMALE) 20P | 1 | |
| P4002 | VJS3675E006G | CONNECTOR (FEMALE) 6P | 1 | |
| P4003 | VJP1230T | CONNECTOR (MALE) 3P | 1 | |
| P5001 | VJR0777B005W | CONNECTOR (MALE) 5P | 1 | |
| P5701 | VJR0777B006W | CONNECTOR (MALE) 6P | 1 | |
| P6001 | VJS3821 | CONNECTOR (FEMALE) 4P | 1 | |
| | | | | |
| PK301 | VJR0776B010W | CONNECTOR (MALE) 10P | 1 | |
| PK302 | VJR0776B011W | CONNECTOR (MALE) 11P | 1 | |
| PK303 | VJR0776B012W | CONNECTOR (MALE) 12P | 1 | |
| PK304 | VJR0776B003W | CONNECTOR (MALE) 3P | 1 | |
| PK0701 | VJR0816E010W | CONNECTOR (MALE) 10P | 1 | |
| PK4501 | VJR0777B008W | CONNECTOR (MALE) 8P | 1 | |
| PK4502 | VJR0777B013W | CONNECTOR (MALE) 13P | 1 | |
| PK4503 | VJR0777B010W | CONNECTOR (MALE) 10P | 1 | |
| PK5801 | VJR0777B007W | CONNECTOR (MALE) 7P | 1 | |
| PK7301 | VJR0777B007W | CONNECTOR (MALE) 7P | 1 | |
| PK7302 | VJR0777B005W | CONNECTOR (MALE) 5P | 1 | |
| | | | | |
| PP0701 | VJP3589A004B | CONNECTOR (MALE) 4P | 1 | |
| PP3002 | VJP3042G013W | CONNECTOR (MALE) 13P | 1 | |
| PP3003,04 | VJP3042G007W | CONNECTOR (MALE) 7P | 2 | |
| PP3005 | VJP3042A010W | CONNECTOR (MALE) 10P | 1 | |
| | | | | |
| PS3001 | VJS3673F014G | CONNECTOR (FEMALE) 14P | 1 | [SUPPLIED FROM MBV] |
| PS3006 | VJS3631A011A | CONNECTOR (FEMALE) 11P | 1 | |
| PS6002 | VJS3673B025G | CONNECTOR (FEMALE) 25P | 1 | |
| | | | | |
| Q301,02 | MSC2295 | TRANSISTOR | 2 | |
| Q304 | MSC2295 | TRANSISTOR | 1 | |
| Q305 | MSD601 | TRANSISTOR | 1 | |
| Q306 | MSB709 | TRANSISTOR | 1 | |
| Q307 | MSB709-R | TRANSISTOR | 1 | |
| Q0701 | MSD601-S | TRANSISTOR | 1 | |
| Q0702 | MSB709-R | TRANSISTOR | 1 | |
| Q1001 | 2SD601A | TRANSISTOR | 1 | |
| Q1002-04 | 2SD1996-S | TRANSISTOR | 3 | |
| Q1005 | 2SD601A | TRANSISTOR | 1 | |
| Q1006 | MSD602 | TRANSISTOR | 1 | |
| Q1007 | 2SD2544OPQA | TRANSISTOR | 1 | |
| Q3001 | MSC2295 | TRANSISTOR | 1 | |
| Q3002 | MSB709 | TRANSISTOR | 1 | |
| Q3003,04 | MSD601 | TRANSISTOR | 2 | |
| Q3005 | MSC2295 | TRANSISTOR | 1 | |
| Q3006 | MSB709 | TRANSISTOR | 1 | |
| Q3007 | MSC2295 | TRANSISTOR | 1 | |
| Q3010 | MSB709-R | TRANSISTOR | 1 | |
| Q3011 | 2SD601A | TRANSISTOR | 1 | |
| Q3012 | 2SB1322 | TRANSISTOR | 1 | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| Q3017 | MSC2295 | TRANSISTOR | 1 | |
| Q3020 | MSD601 | TRANSISTOR | 1 | |
| Q3023 | MSC2295 | TRANSISTOR | 1 | |
| Q3024 | MSD601 | TRANSISTOR | 1 | |
| Q4001 | 2SB709A-R | TRANSISTOR | 1 | |
| Q4002 | 2SD602A-R | TRANSISTOR | 1 | |
| Q4003,04 | MSD601 | TRANSISTOR | 2 | |
| Q4005 | 2SB1320A-R | TRANSISTOR | 1 | |
| Q4006 | 2SD602A-R | TRANSISTOR | 1 | |
| Q4007-09 | MSD601-R | TRANSISTOR | 3 | |
| Q4501 | 2SD1468 | TRANSISTOR | 1 | |
| Q4551 | 2SA1515 | TRANSISTOR | 1 | |
| Q5001 | MSB709 | TRANSISTOR | 1 | |
| Q5002 | MSD601 | TRANSISTOR | 1 | |
| Q5003 | 2SA1022 | TRANSISTOR | 1 | |
| Q5005 | XN1501 | TRANSISTOR-RESISTOR | 1 | |
| Q5006 | MSB709 | TRANSISTOR | 1 | |
| Q5007 | MSC2295 | TRANSISTOR | 1 | |
| Q5008 | MSB709 | TRANSISTOR | 1 | |
| Q5009-13 | MSC2295 | TRANSISTOR | 5 | |
| Q5701 | MSC2295 | TRANSISTOR | 1 | |
| Q5801 | MSB709 | TRANSISTOR | 1 | |
| Q5803 | MSC2295 | TRANSISTOR | 1 | |
| Q5804 | MSB709 | TRANSISTOR | 1 | |
| Q5805 | MSD601 | TRANSISTOR | 1 | |
| Q6001 | MSB709 | TRANSISTOR | 1 | |
| Q6002,03 | PN205LT-NCVT | PHOTO TRANSISTOR | 2 | |
| Q7301 | MSD601-S | TRANSISTOR | 1 | |
| Q7602 | MSD601 | TRANSISTOR | 1 | |
| Q7603 | 2SB710A | TRANSISTOR | 1 | |
| Q7703 | MSB709 | TRANSISTOR | 1 | |
| Q7704,05 | MSD601 | TRANSISTOR | 2 | |
| Q7706 | MSB709 | TRANSISTOR | 1 | |
| | | | | |
| QR302 | MUN2113 | TRANSISTOR-RESISTOR | 1 | |
| QR303 | MUN2212 | TRANSISTOR-RESISTOR | 1 | |
| QR304 | MUN2113 | TRANSISTOR-RESISTOR | 1 | |
| QR305 | MUN2213 | TRANSISTOR-RESISTOR | 1 | |
| QR311 | MUN2113 | TRANSISTOR-RESISTOR | 1 | |
| QR315 | MUN2213 | TRANSISTOR-RESISTOR | 1 | |
| QR317 | MUN2213 | TRANSISTOR-RESISTOR | 1 | |
| QR1001,02 | MUN2113 | TRANSISTOR-RESISTOR | 2 | |
| QR1003 | MUN2211 | TRANSISTOR-RESISTOR | 1 | |
| QR3001 | MUN2111 | TRANSISTOR-RESISTOR | 1 | |
| QR3002,03 | DTC363EK | TRANSISTOR-RESISTOR | 2 | |
| QR3004 | MUN2113 | TRANSISTOR-RESISTOR | 1 | |
| QR3007 | MUN2111 | TRANSISTOR-RESISTOR | 1 | |
| QR3008-12 | MUN2212 | TRANSISTOR-RESISTOR | 5 | |
| QR3018 | MUN2212 | TRANSISTOR-RESISTOR | 1 | |
| QR3026 | MUN2212 | TRANSISTOR-RESISTOR | 1 | |
| QR4001,02 | MUN2212 | TRANSISTOR-RESISTOR | 2 | |
| QR4651,52 | UN5213 | TRANSISTOR-RESISTOR | 2 | |
| QR6001 | XN1211 | TRANSISTOR-RESISTOR | 1 | |
| QR6002 | UN2114 | TRANSISTOR-RESISTOR | 1 | |
| QR6004 | XN1213 | TRANSISTOR-RESISTOR | 1 | |
| QR6005 | MUN2112 | TRANSISTOR-RESISTOR | 1 | |
| QR6006 | XN1211 | TRANSISTOR-RESISTOR | 1 | |
| QR6007 | MUN2211 | TRANSISTOR-RESISTOR | 1 | |
| QR7304 | MUN2213 | TRANSISTOR-RESISTOR | 1 | |
| QR7601,02 | MUN2213 | TRANSISTOR-RESISTOR | 2 | |
| QR7701 | UN2216 | TRANSISTOR-RESISTOR | 1 | |
| QR7702 | UN2215 | TRANSISTOR-RESISTOR | 1 | |
| QR7703 | MUN2113 | TRANSISTOR-RESISTOR | 1 | |
| | | | | |
| R303 | ERJ3GEYJ182 | M.RESISTOR CH 1/16W 1.8K | 1 | |
| R306 | ERJ3GEYJ392 | M.RESISTOR CH 1/16W 3.9K | 1 | |
| R307 | ERJ3GEYJ271 | M.RESISTOR CH 1/16W 270 | 1 | |
| R308 | ERJ3GEYG102 | M.RESISTOR CH 1/16W 1K | 1 | |
| R309 | ERJ3GEYJ271 | M.RESISTOR CH 1/16W 270 | 1 | |
| R310,11 | ERJ3GEYG152 | M.RESISTOR CH 1/16W 1.5K | 2 | |
| R312 | ERJ3GEYG472 | M.RESISTOR CH 1/16W 4.7K | 1 | |
| R313 | ERJ3GEYJ473 | M.RESISTOR CH 1/16W 47K | 1 | |
| R314 | ERJ3GEYJ683 | M.RESISTOR CH 1/16W 68K | 1 | |
| R315 | ERJ3GEYJ223 | M.RESISTOR CH 1/16W 22K | 1 | |
| R316 | ERJ3GEYJ103 | M.RESISTOR CH 1/16W 10K | 1 | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| R317 | ERJ3GEYG472 | M. RESISTOR CH 1/16W 4.7K | 1 | |
| R319 | ERJ3GEYJ183 | M. RESISTOR CH 1/16W 18K | 1 | |
| R320 | ERJ3GEYJ821 | M. RESISTOR CH 1/16W 820 | 1 | |
| R321 | ERJ3GEYJ120 | M. RESISTOR CH 1/16W 12 | 1 | |
| R322 | ERJ3GEYJ223 | M. RESISTOR CH 1/16W 22K | 1 | |
| R323 | ERJ3GEYG472 | M. RESISTOR CH 1/16W 4.7K | 1 | |
| R324, 25 | ERJ3GEYJ103 | M. RESISTOR CH 1/16W 10K | 2 | |
| R326 | ERJ3GEYG472 | M. RESISTOR CH 1/16W 4.7K | 1 | |
| R327 | ERJ3GEYJ101 | M. RESISTOR CH 1/16W 100 | 1 | |
| R328 | ERJ3GEYJ561 | M. RESISTOR CH 1/16W 560 | 1 | |
| R329 | ERJ3GEYG471 | M. RESISTOR CH 1/16W 470 | 1 | |
| R330 | ERJ3GEYJ122 | M. RESISTOR CH 1/16W 1.2K | 1 | |
| R332 | ERJ3GEYJ390 | M. RESISTOR CH 1/16W 39 | 1 | |
| R333 | ERJ3GEYJ561 | M. RESISTOR CH 1/16W 560 | 1 | |
| R334 | ERJ6GEYG101 | M. RESISTOR CH 1/10W 100 | 1 | |
| R335 | ERJ3GEYJ122 | M. RESISTOR CH 1/16W 1.2K | 1 | |
| R336 | ERJ6GEYG271 | M. RESISTOR CH 1/10W 270 | 1 | |
| R337 | ERJ3GEYJ561 | M. RESISTOR CH 1/16W 560 | 1 | |
| R338 | ERJ3GEYJ122 | M. RESISTOR CH 1/16W 1.2K | 1 | |
| R339 | ERJ3GEYJ273 | M. RESISTOR CH 1/16W 27K | 1 | |
| R341 | ERJ3GEYJ101 | M. RESISTOR CH 1/16W 100 | 1 | |
| R346 | ERJ3GEYJ473 | M. RESISTOR CH 1/16W 47K | 1 | |
| R350 | ERJ3GEYG152 | M. RESISTOR CH 1/16W 1.5K | 1 | |
| R351 | ERJ3GEY0R00 | M. RESISTOR CH 1/16W 0 | 1 | |
| R352, 53 | ERJ3GEYJ222 | M. RESISTOR CH 1/16W 2.2K | 2 | |
| R354 | ERJ3GEYJ392 | M. RESISTOR CH 1/16W 3.9K | 1 | |
| R355, 56 | ERJ3GEYJ681 | M. RESISTOR CH 1/16W 680 | 2 | |
| R357 | ERJ3GEYJ272 | M. RESISTOR CH 1/16W 2.7K | 1 | |
| R358 | ERJ3GEYJ122 | M. RESISTOR CH 1/16W 1.2K | 1 | |
| R359 | ERJ3GEYG152 | M. RESISTOR CH 1/16W 1.5K | 1 | |
| R360 | ERJ3GEYJ122 | M. RESISTOR CH 1/16W 1.2K | 1 | |
| R361 | ERJ6GEYG271 | M. RESISTOR CH 1/10W 270 | 1 | |
| R362 | ERJ3GEYJ154 | M. RESISTOR CH 1/16W 150K | 1 | |
| R363 | ERJ3GEYJ204 | M. RESISTOR CH 1/16W 200K | 1 | |
| R364 | ERJ6GEYG153 | M. RESISTOR CH 1/10W 15K | 1 | |
| R365 | ERJ3GEYJ103 | M. RESISTOR CH 1/16W 10K | 1 | |
| R366 | ERJ3GEYJ154 | M. RESISTOR CH 1/16W 150K | 1 | |
| R367 | ERJ3GEYJ103 | M. RESISTOR CH 1/16W 10K | 1 | |
| R369 | ERJ3GEYJ393 | M. RESISTOR CH 1/16W 39K | 1 | |
| R372 | ERJ3GEYJ562 | M. RESISTOR CH 1/16W 5.6K | 1 | |
| R0702 | ERJ3GEYJ272 | M. RESISTOR CH 1/16W 2.7K | 1 | |
| R0704 | ERJ3GEYJ222 | M. RESISTOR CH 1/16W 2.2K | 1 | |
| R0705 | ERJ3GEYJ562 | M. RESISTOR CH 1/16W 5.6K | 1 | |
| R0706, 07 | ERJ3GEYJ272 | M. RESISTOR CH 1/16W 2.7K | 2 | |
| R0708 | ERJ3GEYG152 | M. RESISTOR CH 1/16W 1.5K | 1 | |
| R0709 | ERJ3GEYJ105 | M. RESISTOR CH 1/16W 1M | 1 | |
| R0710 | ERJ6GEYG154 | M. RESISTOR CH 1/10W 150K | 1 | |
| R0713 | ERJ3GEYJ331 | M. RESISTOR CH 1/16W 330 | 1 | |
| R0714 | ERJ3GEYJ470 | M. RESISTOR CH 1/16W 47 | 1 | |
| R0715 | ERJ3GEYJ183 | M. RESISTOR CH 1/16W 18K | 1 | |
| R0716 | VRE0040E151 | M. RESISTOR CH 1/10W 150 | 1 | |
| R0717 | ERJ3GEY0R00 | M. RESISTOR CH 1/16W 0 | 1 | |
| R0718 | ERJ3GEYG102 | M. RESISTOR CH 1/16W 1K | 1 | |
| R0719 | ERJ6GEYF822 | M. RESISTOR CH 1/10W 8.2K | 1 | |
| R0720 | ERJ3GEYG102 | M. RESISTOR CH 1/16W 1K | 1 | |
| R0722 | ERJ3GEYJ101 | M. RESISTOR CH 1/16W 100 | 1 | |
| R0728 | ERJ3GEYG471 | M. RESISTOR CH 1/16W 470 | 1 | |
| R0729 | ERJ3GEYG102 | M. RESISTOR CH 1/16W 1K | 1 | |
| R0732 | ERJ3GEYG471 | M. RESISTOR CH 1/16W 470 | 1 | |
| R0783 | ERJ3GEYJ393 | M. RESISTOR CH 1/16W 39K | 1 | |
| R852 | ERJ6GMYG821 | M. RESISTOR CH 1/10W 820 | 1 | |
| R853 | ERJ6GMYG203 | M. RESISTOR CH 1/10W 20K | 1 | |
| R1001 | ERJ6GMYG333 | M. RESISTOR CH 1/10W 33K | 1 | |
| R1002 | ERDS2TJ102 | C. RESISTOR 1/4W 1K | 1 | |
| R1003 | ERJ6GMYG272 | M. RESISTOR CH 1/10W 2.7K | 1 | |
| R1004 | ERJ6GMYJ363 | M. RESISTOR CH 1/10W 36K | 1 | |
| R1005 | ERJ6GMYG272 | M. RESISTOR CH 1/10W 2.7K | 1 | |
| R1006 | ERDS2TJ122 | C. RESISTOR 1/4W 1.2K | 1 | |
| R1007 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R1008 | ERJ6GMYG333 | M. RESISTOR CH 1/10W 33K | 1 | |
| R1009, 10 | ERJ6GMYG562 | M. RESISTOR CH 1/10W 5.6K | 2 | |
| R1011 | ERDS1TJ272 | C. RESISTOR 1/2W 2.7K | 1 | |
| R2001 | ERJ6GMYG913 | M. RESISTOR CH 1/10W 91K | 1 | |
| R2002-04 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 3 | |
| R2005 | ERX1SJ1R8 | M. RESISTOR 1W 1.8 | 1 | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| R2006 | ERJ6GMYG512 | M. RESISTOR CH 1/10W 5.1K | 1 | |
| R2007 | ERJ6GMYG222 | M. RESISTOR CH 1/10W 2.2K | 1 | |
| R2009, 10 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 2 | |
| R2011 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R2012 | ERJ6GMYJ221 | M. RESISTOR CH 1/10W 220 | 1 | |
| R2013 | ERJ6GMYG272 | M. RESISTOR CH 1/10W 2.7K | 1 | |
| R2014, 15 | ERJ6GMYJ223 | M. RESISTOR CH 1/10W 22K | 2 | |
| R2016 | ERJ6GMYG222 | M. RESISTOR CH 1/10W 2.2K | 1 | |
| R2017, 18 | ERJ6GMYJ223 | M. RESISTOR CH 1/10W 22K | 2 | |
| R2019 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R2020 | ERJ6GMYG471 | M. RESISTOR CH 1/10W 470 | 1 | |
| R2021 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R2022 | ERJ6GMYG222 | M. RESISTOR CH 1/10W 2.2K | 1 | |
| R2023 | EROS2CKG8200 | M. RESISTOR 1/4W 820 | 1 | |
| R2024 | EROS2CKG6800 | M. RESISTOR 1/4W 680 | 1 | |
| R2025 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R2026, 27 | ERDS2TJ560 | C. RESISTOR 1/4W 56 | 2 | |
| R2028 | ERDS1TJ561 | C. RESISTOR 1/2W 560 | 1 | |
| R2029 | ERJ6GMYG222 | M. RESISTOR CH 1/10W 2.2K | 1 | |
| R2030 | ERJ6GMYG432 | M. RESISTOR CH 1/10W 4.3K | 1 | |
| R2031 | ERJ6GMYG473 | M. RESISTOR CH 1/10W 47K | 1 | |
| R2032 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R2033 | ERJ6GMYJ684 | M. RESISTOR CH 1/10W 680K | 1 | |
| R2034 | ERJ6GMYG133 | M. RESISTOR CH 1/10W 13K | 1 | |
| R2035 | ERJ6GMYJ105 | M. RESISTOR CH 1/10W 1M | 1 | |
| R2036, 37 | ERJ6GMYG472 | M. RESISTOR CH 1/10W 4.7K | 2 | |
| R2038 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R2039, 40 | ERJ6GMYJ105 | M. RESISTOR CH 1/10W 1M | 2 | |
| R2041, 42 | ERJ6GMYG392 | M. RESISTOR CH 1/10W 3.9K | 2 | |
| R2043 | ERDS2TJ560 | C. RESISTOR 1/4W 56 | 1 | |
| R2044 | ERX12SJR47 | M. RESISTOR 1/2W 0.47 | 1 | |
| R2050 | ERJ6GMYG332 | M. RESISTOR CH 1/10W 3.3K | 1 | |
| R2051 | ERJ6GMZOR00 | M. RESISTOR CH 1/10W 0 | 1 | |
| R3001 | ERJ6GMYG561 | M. RESISTOR CH 1/10W 560 | 1 | |
| R3002 | ERJ6GMYG472 | M. RESISTOR CH 1/10W 4.7K | 1 | |
| R3003 | ERJ6GMYG222 | M. RESISTOR CH 1/10W 2.2K | 1 | |
| R3004 | ERJ6GMYG272 | M. RESISTOR CH 1/10W 2.7K | 1 | |
| R3005 | ERJ6GMYG332 | M. RESISTOR CH 1/10W 3.3K | 1 | |
| R3006 | ERDS2TJ472 | C. RESISTOR 1/4W 4.7K | 1 | |
| R3007 | ERJ6GMYG681 | M. RESISTOR CH 1/10W 680 | 1 | |
| R3008 | ERJ6GMYG222 | M. RESISTOR CH 1/10W 2.2K | 1 | |
| R3009 | ERJ6GMYG392 | M. RESISTOR CH 1/10W 3.9K | 1 | |
| R3012 | ERDS2T0 | C. RESISTOR 1/4W 0 | 1 | |
| R3013 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R3014 | ERDS2TJ102 | C. RESISTOR 1/4W 1K | 1 | |
| R3015 | ERJ6GMYG222 | M. RESISTOR CH 1/10W 2.2K | 1 | |
| R3018 | ERJ6GMYJ223 | M. RESISTOR CH 1/10W 22K | 1 | |
| R3019, 20 | ERJ6GMYG561 | M. RESISTOR CH 1/10W 560 | 2 | |
| R3021 | ERJ6GMYJ391 | M. RESISTOR CH 1/10W 390 | 1 | |
| R3022 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R3023, 24 | ERJ6GMYG821 | M. RESISTOR CH 1/10W 820 | 2 | |
| R3025 | ERJ6GMYG152 | M. RESISTOR CH 1/10W 1.5K | 1 | |
| R3026 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R3029 | ERJ6GMYG222 | M. RESISTOR CH 1/10W 2.2K | 1 | |
| R3030 | ERJ6GEYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R3031 | ERJ6GEYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R3032 | ERJ6GMYG334 | M. RESISTOR CH 1/10W 330K | 1 | |
| R3033 | ERJ6GMYJ223 | M. RESISTOR CH 1/10W 22K | 1 | |
| R3034 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R3037 | ERDS2TJ102 | C. RESISTOR 1/4W 1K | 1 | |
| R3039 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R3049 | ERJ6GMYG821 | M. RESISTOR CH 1/10W 820 | 1 | |
| R3050 | ERJ6GMYG123 | M. RESISTOR CH 1/10W 12K | 1 | |
| R3051 | ERJ6GMYG512 | M. RESISTOR CH 1/10W 5.1K | 1 | |
| R3052 | ERJ6GMYG272 | M. RESISTOR CH 1/10W 2.7K | 1 | |
| R3053 | ERJ6GMYG302 | M. RESISTOR CH 1/10W 3K | 1 | |
| R3054 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R3064, 65 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 2 | |
| R3076, 77 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 2 | |
| R3078 | ERDS2T0 | C. RESISTOR 1/4W 0 | 1 | |
| R3079, 80 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 2 | |
| R4003 | ERJ6GMYG100 | M. RESISTOR CH 1/10W 10 | 1 | |
| R4004, 05 | ERJ6GMYG472 | M. RESISTOR CH 1/10W 4.7K | 2 | |
| R4006 | ERJ6GMYG333 | M. RESISTOR CH 1/10W 33K | 1 | |
| R4007 | ERJ6GMYG153 | M. RESISTOR CH 1/10W 15K | 1 | |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| R4008, 09 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 2 | |
| R4010 | ERJ6GMYG273 | M. RESISTOR CH 1/10W 27K | 1 | |
| R4011 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R4012 | ERJ6GMYG123 | M. RESISTOR CH 1/10W 12K | 1 | |
| R4013 | ERJ6GMYJ163 | M. RESISTOR CH 1/10W 16K | 1 | |
| R4014 | ERJ6GMYG562 | M. RESISTOR CH 1/10W 5.6K | 1 | |
| R4015 | ERJ6GMYG333 | M. RESISTOR CH 1/10W 33K | 1 | |
| R4016 | ERJ6GMYJ223 | M. RESISTOR CH 1/10W 22K | 1 | |
| R4017 | ERJ6GMYG133 | M. RESISTOR CH 1/10W 1.3K | 1 | |
| R4019 | ERJ6GMYJ105 | M. RESISTOR CH 1/10W 1M | 1 | |
| R4020 | ERJ6GMYG123 | M. RESISTOR CH 1/10W 12K | 1 | |
| R4021 | ERJ6GMYG473 | M. RESISTOR CH 1/10W 47K | 1 | |
| R4022 | ERJ6GMYG331 | M. RESISTOR CH 1/10W 330 | 1 | |
| R4023 | ERJ6GMYG394 | M. RESISTOR CH 1/10W 390K | 1 | |
| R4024 | ERDS2TJ221 | C. RESISTOR 1/4W 220 | 1 | |
| R4025 | ERJ6GMYG682 | M. RESISTOR CH 1/10W 6.8K | 1 | |
| R4026 | ERJ6GMYG473 | M. RESISTOR CH 1/10W 47K | 1 | |
| R4027 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R4028 | ERJ6GMYG622 | M. RESISTOR CH 1/10W 6.2K | 1 | |
| R4029 | ERJ6GMYG133 | M. RESISTOR CH 1/10W 13K | 1 | |
| R4030 | ERJ6GMYG562 | M. RESISTOR CH 1/10W 5.6K | 1 | |
| R4031 | ERJ6GMYG222 | M. RESISTOR CH 1/10W 2.2K | 1 | |
| R4032 | ERJ6GMYG471 | M. RESISTOR CH 1/10W 470 | 1 | |
| R4033 | ERJ6GMYG331 | M. RESISTOR CH 1/10W 330 | 1 | |
| R4034 | ERJ6GMYG203 | M. RESISTOR CH 1/10W 20K | 1 | |
| R4035, 36 | ERJ6GMYJ223 | M. RESISTOR CH 1/10W 22K | 2 | |
| R4037 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R4038 | ERJ6GMYG332 | M. RESISTOR CH 1/10W 3.3K | 1 | |
| R4039 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R4041, 42 | ERJ6GMYG393 | M. RESISTOR CH 1/10W 39K | 2 | |
| R4043 | ERG2SJ821 | M. RESISTOR 2W 820 | 1 | |
| R4044 | ERDS1TJ222 | C. RESISTOR 1/2W 2.2K | 1 | |
| R4047 | ERJ6GMYG104 | M. RESISTOR CH 1/10W 100K | 1 | |
| R4048 | ERJ6GMYG473 | M. RESISTOR CH 1/10W 47K | 1 | |
| R4049 | ERJ6GMYG682 | M. RESISTOR CH 1/10W 6.8K | 1 | |
| R4050 | ERJ6GMYJ221 | M. RESISTOR CH 1/10W 220 | 1 | |
| R4051 | ERJ6GMYG682 | M. RESISTOR CH 1/10W 6.8K | 1 | |
| R4054 | ERJ6GMZOR00 | M. RESISTOR CH 1/10W 0 | 1 | |
| R4055 | ERJ6GMYG153 | M. RESISTOR CH 1/10W 15K | 1 | |
| R4056 | ERJ6GMYG393 | M. RESISTOR CH 1/10W 39K | 1 | |
| R4057 | ERJ6GMYG272 | M. RESISTOR CH 1/10W 2.7K | 1 | |
| R4058 | ERJ6GMYG472 | M. RESISTOR CH 1/10W 4.7K | 1 | |
| R4059 | ERJ6GMYG332 | M. RESISTOR CH 1/10W 3.3K | 1 | |
| R4062, 63 | ERJ6GMYG243 | M. RESISTOR CH 1/10W 24K | 2 | |
| R4064 | ERJ6GMYJ221 | M. RESISTOR CH 1/10W 220 | 1 | |
| R4065 | ERJ6GMZOR00 | M. RESISTOR CH 1/10W 0 | 1 | |
| R4066 | ERJ6GMYG361 | M. RESISTOR CH 1/10W 360 | 1 | |
| R4067, 68 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 2 | |
| R4069, 70 | ERJ6GMYJ683 | M. RESISTOR CH 1/10W 68K | 2 | |
| R4071 | ERJ6GMZOR00 | M. RESISTOR CH 1/10W 0 | 1 | |
| R4073 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R4503 | ERJ3RBD203 | M. RESISTOR CH 1/16W 20K | 1 | [SUPPLIED FROM MBV] |
| R4504 | ERJ3GEYG224 | M. RESISTOR CH 1/16W 220K | 1 | |
| R4508 | ERJ3GEYG224 | M. RESISTOR CH 1/16W 220K | 1 | |
| R4512 | ERJ3RBD123 | M. RESISTOR CH 1/16W 12K | 1 | |
| R4513 | ERJ3GEYJ103 | M. RESISTOR CH 1/16W 10K | 1 | |
| R4517, 18 | ERJ3GEYJ221 | M. RESISTOR CH 1/16W 220 | 2 | |
| R4519, 20 | ERJ3GEYJ103 | M. RESISTOR CH 1/16W 10K | 2 | |
| R4522 | ERJ3GEYK225 | M. RESISTOR CH 1/16W 2.2M | 1 | |
| R4528 | ERJ3RBD153 | M. RESISTOR CH 1/16W 15K | 1 | |
| R4529 | ERJ3GEYG562 | M. RESISTOR CH 1/16W 5.6K | 1 | |
| R4530 | ERJ3GEYJ334 | M. RESISTOR CH 1/16W 330K | 1 | |
| R4534 | ERJ3GEYJ103 | M. RESISTOR CH 1/16W 10K | 1 | |
| R4542 | ERJ3GEYJ222 | M. RESISTOR CH 1/16W 2.2K | 1 | |
| R4562 | ERJ3RBD912 | M. RESISTOR CH 1/16W 9.1K | 1 | [SUPPLIED FROM MBV] |
| R4563 | ERJ3GEYJ272 | M. RESISTOR CH 1/16W 2.7K | 1 | |
| R4584 | ERJ3GEYJ103 | M. RESISTOR CH 1/16W 10K | 1 | |
| R4585 | ERJ3GEYOR00 | M. RESISTOR CH 1/16W 0 | 1 | |
| R4586 | ERJ3GEYJ103 | M. RESISTOR CH 1/16W 10K | 1 | |
| R4598 | ERJ6RED124 | M. RESISTOR CH 1/10W 120K | 1 | [SUPPLIED FROM MBV] |
| R4599 | ERJ6RED114 | M. RESISTOR CH 1/10W 110K | 1 | [SUPPLIED FROM MBV] |
| R4601 | ERJ3GEYJ473 | M. RESISTOR CH 1/16W 47K | 1 | |
| R4603-05 | ERJ3GEYJ473 | M. RESISTOR CH 1/16W 47K | 3 | |
| R4606 | ERJ6GEYF473 | M. RESISTOR CH 1/10W 47K | 1 | |
| R4607 | ERJ3GEYJ473 | M. RESISTOR CH 1/16W 47K | 1 | |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| R4608 | ERDS2TJ103 | C. RESISTOR 1/4W 10K | 1 | |
| R4621 | ERJ6GEYG163 | M. RESISTOR CH 1/10W 16K | 1 | |
| R4623 | ERJ3GEYJ221 | M. RESISTOR CH 1/16W 220 | 1 | |
| R4624 | ERJ3GEYJ103 | M. RESISTOR CH 1/16W 10K | 1 | |
| R4695, 96 | ERJ3GEYJ473 | M. RESISTOR CH 1/16W 47K | 2 | |
| R4697 | ERJ6GEYG562 | M. RESISTOR CH 1/10W 5.6K | 1 | |
| R5003 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R5004 | ERJ6GMYG271 | M. RESISTOR CH 1/10W 270 | 1 | |
| R5005 | ERJ6GMYG472 | M. RESISTOR CH 1/10W 4.7K | 1 | |
| R5006 | ERJ6GMYJ124 | M. RESISTOR CH 1/10W 120K | 1 | |
| R5007 | ERJ6GMYJ223 | M. RESISTOR CH 1/10W 22K | 1 | |
| R5012 | ERJ6GMYG563 | M. RESISTOR CH 1/10W 56K | 1 | |
| R5013 | ERJ6GMYG123 | M. RESISTOR CH 1/10W 12K | 1 | |
| R5014 | ERJ6GMYG223 | M. RESISTOR CH 1/10W 22K | 1 | |
| R5016, 17 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 2 | |
| R5018 | ERJ6GMYG123 | M. RESISTOR CH 1/10W 12K | 1 | |
| R5019 | ERJ6GMYG682 | M. RESISTOR CH 1/10W 6.8K | 1 | |
| R5020 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R5021, 22 | ERJ6GMYG681 | M. RESISTOR CH 1/10W 680 | 2 | |
| R5023 | ERJ6GMYG271 | M. RESISTOR CH 1/10W 270 | 1 | |
| R5025 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R5027 | ERJ6GMYG122 | M. RESISTOR CH 1/10W 1.2K | 1 | |
| R5028, 29 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 2 | |
| R5030 | ERJ6GMYG471 | M. RESISTOR CH 1/10W 470 | 1 | |
| R5031 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R5701-04 | ERJ6GEYG102 | M. RESISTOR CH 1/10W 1K | 4 | |
| R5705 | ERJ6GEYG152 | M. RESISTOR CH 1/10W 1.5K | 1 | |
| R5706, 07 | ERJ6GEYG102 | M. RESISTOR CH 1/10W 1K | 2 | |
| R5708 | ERJ6GEYF333 | M. RESISTOR CH 1/10W 33K | 1 | |
| R5801 | ERJ6GEYG222 | M. RESISTOR CH 1/10W 2.2K | 1 | |
| R5802 | ERJ6GEYG681 | M. RESISTOR CH 1/10W 680 | 1 | |
| R5803 | ERJ6GEYG182 | M. RESISTOR CH 1/10W 1.8K | 1 | |
| R5808 | ERJ6GEYOR00 | M. RESISTOR CH 1/10W 0 | 1 | |
| R5810 | ERJ6GEYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R5811 | ERJ6GEYG273 | M. RESISTOR CH 1/10W 27K | 1 | |
| R5812 | ERJ6GEYG563 | M. RESISTOR CH 1/10W 56K | 1 | |
| R5813 | ERJ6GEYF561 | M. RESISTOR CH 1/10W 560 | 1 | |
| R5814 | ERJ6GEYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R5815 | ERJ6GEYG681 | M. RESISTOR CH 1/10W 680 | 1 | |
| R5816 | ERJ6GEYG181 | M. RESISTOR CH 1/10W 180 | 1 | |
| R5817 | ERJ6GEYG101 | M. RESISTOR CH 1/10W 100 | 1 | |
| R5818 | ERJ6GEYG242 | M. RESISTOR CH 1/10W 2.4K | 1 | |
| R6001 | ERJ6GMYJ201 | M. RESISTOR CH 1/10W 200 | 1 | |
| R6002 | ERJ6GMYG272 | M. RESISTOR CH 1/10W 2.7K | 1 | |
| R6003-05 | ERJ6GMYG333 | M. RESISTOR CH 1/10W 33K | 3 | |
| R6006, 07 | ERJ6GMYG223 | M. RESISTOR CH 1/10W 22K | 2 | |
| R6008 | ERJ6GMYG272 | M. RESISTOR CH 1/10W 2.7K | 1 | |
| R6009 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R6010 | ERJ6GMYG272 | M. RESISTOR CH 1/10W 2.7K | 1 | |
| R6011 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R6012, 13 | ERJ6GMYG101 | M. RESISTOR CH 1/10W 100 | 2 | |
| R6015 | ERJ6GMYG104 | M. RESISTOR CH 1/10W 100K | 1 | |
| R6016 | ERJ6GMYJ683 | M. RESISTOR CH 1/10W 68K | 1 | |
| R6017 | ERDS2TJ103 | C. RESISTOR 1/4W 10K | 1 | |
| R6019 | ERDS2TJ473 | C. RESISTOR 1/4W 47K | 1 | |
| R6020 | ERJ6GMYG104 | M. RESISTOR CH 1/10W 100K | 1 | |
| R6021-23 | ERJ6GMYG101 | M. RESISTOR CH 1/10W 100 | 3 | |
| R6024 | ERJ6GMYG222 | M. RESISTOR CH 1/10W 2.2K | 1 | |
| R6025 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R6026 | ERJ6GMYG473 | M. RESISTOR CH 1/10W 47K | 1 | |
| R6027 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R6028 | ERJ6GMYG392 | M. RESISTOR CH 1/10W 3.9K | 1 | |
| R6029, 30 | ERJ6GMYG272 | M. RESISTOR CH 1/10W 2.7K | 2 | |
| R6031, 32 | ERJ6GMYJ221 | M. RESISTOR CH 1/10W 220 | 2 | |
| R6033 | ERJ6GMYG272 | M. RESISTOR CH 1/10W 2.7K | 1 | |
| R6034 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R6035, 36 | ERJ6GMYJ221 | M. RESISTOR CH 1/10W 220 | 2 | |
| R6037, 38 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 2 | |
| R6039 | ERDS2TJ271 | C. RESISTOR 1/4W 270 | 1 | |
| R6040, 41 | ERJ6GMYJ683 | M. RESISTOR CH 1/10W 68K | 2 | |
| R6043 | ERJ6GMZOR00 | M. RESISTOR CH 1/10W 0 | 1 | |
| R6044 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R6046-48 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 3 | |
| R6049 | ERDS2TJ102 | C. RESISTOR 1/4W 1K | 1 | |
| R6050 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 1 | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| R6052 | ERJ6GMYG103 | M.RESISTOR CH 1/10W 10K | 1 | |
| R6054 | ERJ6GMYG472 | M.RESISTOR CH 1/10W 4.7K | 1 | |
| R6055 | ERJ6GMYG183 | M.RESISTOR CH 1/10W 18K | 1 | |
| R6056-58 | ERJ6GMYG102 | M.RESISTOR CH 1/10W 1K | 3 | |
| R6059 | ERJ6GMYG103 | M.RESISTOR CH 1/10W 10K | 1 | |
| R6060 | ERJ6GMYG822 | M.RESISTOR CH 1/10W 8.2K | 1 | |
| R6061 | ERJ6GMYG243 | M.RESISTOR CH 1/10W 24K | 1 | |
| R6062 | ERJ6GMYG103 | M.RESISTOR CH 1/10W 10K | 1 | |
| R6064 | ERJ6GMYG103 | M.RESISTOR CH 1/10W 10K | 1 | |
| R6065 | ERJ6GMYG334 | M.RESISTOR CH 1/10W 330K | 1 | |
| R7302 | ERJ3GEYG133 | M.RESISTOR CH 1/16W 13K | 1 | |
| R7303 | ERJ3GEYJ222 | M.RESISTOR CH 1/16W 2.2K | 1 | |
| R7304 | ERJ3GEYG392 | M.RESISTOR CH 1/16W 3.9K | 1 | |
| R7305 | ERJ3GEYJ562 | M.RESISTOR CH 1/16W 5.6K | 1 | |
| R7307 | ERJ3GEYJ272 | M.RESISTOR CH 1/16W 2.7K | 1 | |
| R7311 | ERJ3GEY0R00 | M.RESISTOR CH 1/16W 0 | 1 | |
| R7313 | ERJ3GEYJ273 | M.RESISTOR CH 1/16W 27K | 1 | |
| R7320 | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K | 1 | |
| R7323 | ERJ3GEYG472 | M.RESISTOR CH 1/16W 4.7K | 1 | |
| R7324,25 | ERJ3GEYG471 | M.RESISTOR CH 1/16W 470 | 2 | |
| R7326 | ERJ3GEYG113 | M.RESISTOR CH 1/16W 11K | 1 | |
| R7327 | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K | 1 | |
| R7328 | ERJ3GEY0R00 | M.RESISTOR CH 1/16W 0 | 1 | |
| R7329 | ERJ3GEYG332 | M.RESISTOR CH 1/16W 3.3K | 1 | |
| R7330 | ERJ3GEY0R00 | M.RESISTOR CH 1/16W 0 | 1 | |
| R7331 | ERJ3GEYG113 | M.RESISTOR CH 1/16W 11K | 1 | |
| R7336 | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470 | 1 | |
| R7337 | ERJ3GEYG471 | M.RESISTOR CH 1/16W 470 | 1 | |
| R7345 | ERJ3GEYJ182 | M.RESISTOR CH 1/16W 1.8K | 1 | |
| R7352,53 | ERJ3GEYJ103 | M.RESISTOR CH 1/16W 10K | 2 | |
| R7354,55 | ERJ3GEYG102 | M.RESISTOR CH 1/16W 1K | 2 | |
| R7358,59 | ERJ3GEY0R00 | M.RESISTOR CH 1/16W 0 | 2 | |
| R7362,63 | ERJ3GEYJ103 | M.RESISTOR CH 1/16W 10K | 2 | |
| R7601 | ERJ6GMYG151 | M.RESISTOR CH 1/10W 150 | 1 | |
| R7602,03 | ERJ6GMYJ683 | M.RESISTOR CH 1/10W 68K | 2 | |
| R7604 | ERJ6GMYG151 | M.RESISTOR CH 1/10W 150 | 1 | |
| R7605-07 | ERJ6GMYG102 | M.RESISTOR CH 1/10W 1K | 3 | |
| R7609 | ERDS2TJ330 | C.RESISTOR 1/4W 33 | 1 | |
| R7612 | ERG2SJ331 | M.RESISTOR 2W 330 | 1 | |
| R7614 | ERJ6GMYG561 | M.RESISTOR CH 1/10W 560 | 1 | |
| R7615 | ERJ6GMYG103 | M.RESISTOR CH 1/10W 10K | 1 | |
| R7616 | ERG2SJ331 | M.RESISTOR 2W 330 | 1 | |
| R7618 | ERJ6GMYG472 | M.RESISTOR CH 1/10W 4.7K | 1 | |
| R7619 | ERJ6GMYG103 | M.RESISTOR CH 1/10W 10K | 1 | |
| R7702 | ERJ6GMYG182 | M.RESISTOR CH 1/10W 1.8K | 1 | |
| R7703,04 | ERJ6GMYG101 | M.RESISTOR CH 1/10W 100 | 2 | |
| R7705 | ERJ6GMYG102 | M.RESISTOR CH 1/10W 1K | 1 | |
| R7707 | ERJ6GMYG102 | M.RESISTOR CH 1/10W 1K | 1 | |
| R7708 | ERJ6GMYG272 | M.RESISTOR CH 1/10W 2.7K | 1 | |
| R7709 | ERJ6GMZOR00 | M.RESISTOR CH 1/10W 0 | 1 | |
| R7711 | ERJ6GMYG272 | M.RESISTOR CH 1/10W 2.7K | 1 | |
| R7712,13 | ERJ6GMZOR00 | M.RESISTOR CH 1/10W 0 | 2 | |
| R7714-19 | ERJ6GMYG101 | M.RESISTOR CH 1/10W 100 | 6 | |
| R7720,21 | ERJ6GMYG103 | M.RESISTOR CH 1/10W 10K | 2 | |
| R7722 | ERJ6GMYG472 | M.RESISTOR CH 1/10W 4.7K | 1 | |
| R7723 | ERJ6GMYG152 | M.RESISTOR CH 1/10W 1.5K | 1 | |
| R7725 | ERJ6GMYG332 | M.RESISTOR CH 1/10W 3.3K | 1 | |
| R7726 | ERJ6GMYG273 | M.RESISTOR CH 1/10W 27K | 1 | |
| R7727 | ERJ6GMYG472 | M.RESISTOR CH 1/10W 4.7K | 1 | |
| R7729 | ERJ6GMYG472 | M.RESISTOR CH 1/10W 4.7K | 1 | |
| R7730 | ERJ6GMYG101 | M.RESISTOR CH 1/10W 100 | 1 | |
| R7731 | ERJ6GMYG103 | M.RESISTOR CH 1/10W 10K | 1 | |
| R7732 | ERJ6GMYG472 | M.RESISTOR CH 1/10W 4.7K | 1 | |
| R7733 | ERJ6GMYG104 | M.RESISTOR CH 1/10W 100K | 1 | |
| R7734 | ERJ6GMYG102 | M.RESISTOR CH 1/10W 1K | 1 | |
| R7735 | ERJ6GMYG104 | M.RESISTOR CH 1/10W 100K | 1 | |
| R7736 | ERJ6GMYG152 | M.RESISTOR CH 1/10W 1.5K | 1 | |
| R7737,38 | ERJ6GMYJ221 | M.RESISTOR CH 1/10W 220 | 2 | |
| R7739 | ERJ6GMYJ112 | M.RESISTOR CH 1/10W 1.1K | 1 | |
| R7740 | ERJ6GMYG102 | M.RESISTOR CH 1/10W 1K | 1 | |
| R7741 | ERJ6GMYG472 | M.RESISTOR CH 1/10W 4.7K | 1 | |
| R7742 | ERJ6GMYG682 | M.RESISTOR CH 1/10W 6.8K | 1 | |
| R7743 | ERJ6GMYG103 | M.RESISTOR CH 1/10W 10K | 1 | |
| R7745 | ERJ6GMYG224 | M.RESISTOR CH 1/10W 220K | 1 | |
| R7747 | ERJ6GMYG472 | M.RESISTOR CH 1/10W 4.7K | 1 | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| R7748 | ERJ6GMYG102 | M.RESISTOR CH 1/10W 1K | 1 | |
| R7750 | ERJ6GMYG561 | M.RESISTOR CH 1/10W 560 | 1 | |
| R7751 | ERJ6GMYG392 | M.RESISTOR CH 1/10W 3.9K | 1 | |
| R7753 | ERJ6GMYG102 | M.RESISTOR CH 1/10W 1K | 1 | |
| R7754 | ERJ6GMYG122 | M.RESISTOR CH 1/10W 1.2K | 1 | |
| R7756 | ERJ6GMYG473 | M.RESISTOR CH 1/10W 47K | 1 | |
| R7757 | ERJ6GMYG101 | M.RESISTOR CH 1/10W 100 | 1 | |
| R7758 | ERJ6GMYG273 | M.RESISTOR CH 1/10W 27K | 1 | |
| R7761 | ERJ6GMYG272 | M.RESISTOR CH 1/10W 2.7K | 1 | |
| R7764 | ERJ6GMYG102 | M.RESISTOR CH 1/10W 1K | 1 | |
| | | | | |
| RX7701 | EXBF9E103J | RESISTOR-RESISTOR | 1 | |
| | | | | |
| S6001 | VES0709 | SWITCH | 1 | |
| | | | | |
| T0703 | EQV5EC071A | TRANSFORMER | 1 | |
| T0704 | EQV5EC072A | TRANSFORMER | 1 | |
| T4001 | EIQ7QF012Q | TRANSFORMER | 1 | |
| T4002 | EIQ7QF013Q | TRANSFORMER | 1 | |
| T7301 | EQR7QG028P | TRANSFORMER | 1 | |
| T7304 | EIS5EC017A | TRANSFORMER | 1 | |
| T7305 | EQS5EC033A | TRANSFORMER | 1 | |
| | | | | |
| ⚠TU7601 | ENG47232GD | TUNER | 1 | [SUPPLIED FROM MBV] |
| | | | | |
| VR0701 | EVNCBAA00B24 | V.RESISTOR 20K | 1 | |
| VR803 | EVMEASA00B14 | V.RESISTOR 10K | 1 | |
| VR2001 | EVNCYAA03B54 | V.RESISTOR 50K | 1 | |
| VR3001,02 | EVNCYAA03B23 | V.RESISTOR 2K | 2 | |
| VR3012,13 | EVNCYAA03B52 | V.RESISTOR 500 | 2 | |
| VR3014 | EVNCYAA03B54 | V.RESISTOR 50K | 1 | |
| VR4001 | EVNCYAA03B15 | V.RESISTOR 100K | 1 | |
| VR4501 | EVMECSA00BS3 | V.RESISTOR 6.8K | 1 | |
| VR4509 | EVMECSA00B53 | V.RESISTOR 5K | 1 | |
| VR4550 | EVMECSA00B14 | V.RESISTOR 10K | 1 | |
| VR7301,02 | EVNCBAA00B53 | V.RESISTOR 5K | 2 | |
| | | | | |
| X301 | VSX0162 | CRYSTAL OSCILLATOR | 1 | |
| X0701 | VLF1178 | FILTER | 1 | |
| X0703 | EFCS5R5MW5 | FILTER | 1 | |
| X0704 | VLF1035 | FILTER | 1 | |
| X6001 | VSX0583 | CRYSTAL OSCILLATOR | 1 | |
| X7301 | EFCS5R5MS5 | FILTER | 1 | |
| X7304 | EFCS5R74MS5B | FILTER | 1 | |
| X7305 | VSX0648 | CRYSTAL OSCILLATOR | 1 | |
| X7702 | VSX0353 | CRYSTAL OSCILLATOR | 1 | |
| | | | | |
| | | MISCELLANEOUS | | |
| | VMP4894 | SUPPORT ANGLE | 2 | |
| | VMD2329 | PHOTO TRANSISTOR HOLDER | 2 | |
| | VMD2328 | REEL GUIDE | 1 | |
| | VMD2330 | LED HOLDER | 1 | |
| | VMP4894 | SUPPORT ANGLE | 1 | FOR DECODER C.B.A. |
| | VMP4471 | TV DEMODULATOR ANGLE | 1 | FOR TV DEMODULATOR C.B.A. |
| | | | | |
| ■ | VEP06B36K | MAIN C.B.A. | | [SUPPLIED FROM MBV] |
| | | | | (RTL) |
| | | | | NV-HD660B |
| C301 | ECUX1H101JCV | C.CAPACITOR CH 50V 100P | 1 | |
| C303 | ECUX1H331JCV | C.CAPACITOR CH 50V 330P | 1 | |
| C305 | ECUX1H102JCV | C.CAPACITOR CH 50V 1000P | 1 | |
| C306 | ECUX1H103ZFV | C.CAPACITOR CH 50V 0.01U | 1 | |
| C307 | ECEA1EKA4R7 | E.CAPACITOR 25V 4.7U | 1 | |
| C308 | ECUX1H102KBV | C.CAPACITOR CH 50V 1000P | 1 | |
| C309 | ECUX1H330JCV | C.CAPACITOR CH 50V 33P | 1 | |
| C310 | ECUX1E223KBV | C.CAPACITOR CH 25V 0.023U | 1 | |
| C311 | ECUM1E104KBN | C.CAPACITOR CH 25V 0.1U | 1 | |
| C312 | ECUX1H680JCV | C.CAPACITOR CH 50V 68P | 1 | |
| C313 | ECUX1H681JCV | C.CAPACITOR CH 50V 680P | 1 | |
| C314 | ECUM1H104ZFN | C.CAPACITOR CH 50V 0.1U | 1 | |
| C315 | ECUX1H103ZFV | C.CAPACITOR CH 50V 0.01U | 1 | |
| C316 | ECEA1HKA010 | E.CAPACITOR 50V 1U | 1 | |
| C317 | ECUX1C104KBV | C.CAPACITOR CH 16V 0.1U | 1 | |
| C318 | ECUX1C104ZFV | C.CAPACITOR CH 16V 0.1U | 1 | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| C319 | ECUX1H222KBV | C. CAPACITOR CH 50V 2200P | 1 | |
| C320 | ECUX1C333KBV | C. CAPACITOR CH 16V 0.033U | 1 | |
| C321 | ECEA1HKA010 | E. CAPACITOR 50V 1U | 1 | |
| C322 | ECUX1H470JCV | C. CAPACITOR CH 50V 47P | 1 | |
| C323 | ECUX1H390JCV | C. CAPACITOR CH 50V 39P | 1 | |
| C324 | ECEA0JKA101 | E. CAPACITOR 6.3V 100U | 1 | |
| C325 | ECUX1H103ZFV | C. CAPACITOR CH 50V 0.01U | 1 | |
| C327 | ECUX1C104ZFV | C. CAPACITOR CH 16V 0.1U | 1 | |
| C328 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C329,30 | ECEA1EKA4R7 | E. CAPACITOR 25V 4.7U | 2 | |
| C331 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C332 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 1 | |
| C333 | ECUX1H080DCV | C. CAPACITOR CH 50V 8P | 1 | |
| C334 | ECUX1H270JCV | C. CAPACITOR CH 50V 27P | 1 | |
| C335 | ECUX1H680JCV | C. CAPACITOR CH 50V 68P | 1 | |
| C336 | ECUX1H180JCV | C. CAPACITOR CH 50V 18P | 1 | |
| C337 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 1 | |
| C338 | ECUX1C104ZFV | C. CAPACITOR CH 16V 0.1U | 1 | |
| C339 | ECUX1H470JCV | C. CAPACITOR CH 50V 47P | 1 | |
| C340 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 1 | |
| C341 | ECUX1E223KBV | C. CAPACITOR CH 25V 0.023U | 1 | |
| C342 | ECEA1EKA4R7 | E. CAPACITOR 25V 4.7U | 1 | |
| C343 | ECEA1EKN4R7 | E. CAPACITOR 25V 4.7U | 1 | |
| C344 | ECUX1C104ZFV | C. CAPACITOR CH 16V 0.1U | 1 | |
| C345,46 | ECUX1H103ZFV | C. CAPACITOR CH 50V 0.01U | 2 | |
| C347 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C348 | ECEA1CKA101 | E. CAPACITOR 16V 100U | 1 | |
| C349 | ECUX1C104ZFV | C. CAPACITOR CH 16V 0.1U | 1 | |
| C350 | ECUX1H152KBV | C. CAPACITOR CH 50V 1500P | 1 | |
| C351 | ECUX1H392KBV | C. CAPACITOR CH 50V 3900P | 1 | |
| C352 | ECEA0JKA470 | E. CAPACITOR 6.3V 47U | 1 | |
| C353 | ECUX1H820JCV | C. CAPACITOR CH 50V 82P | 1 | |
| C354 | ECUX1H470JCV | C. CAPACITOR CH 50V 47P | 1 | |
| C355 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C362,63 | ECUX1H103ZFV | C. CAPACITOR CH 50V 0.01U | 2 | |
| C364 | ERJ6GEY0R00 | M. RESISTOR CH 1/10W 0 | 1 | |
| C365 | ECUX1H103ZFV | C. CAPACITOR CH 50V 0.01U | 1 | |
| C367 | ECUX1H560JCV | C. CAPACITOR CH 50V 56P | 1 | |
| C368,69 | ECUX1H103ZFV | C. CAPACITOR CH 50V 0.01U | 2 | |
| C370 | ECUX1H560JCV | C. CAPACITOR CH 50V 56P | 1 | |
| C371 | ECUX1H103ZFV | C. CAPACITOR CH 50V 0.01U | 1 | |
| C372 | ECUX1H470JCV | C. CAPACITOR CH 50V 47P | 1 | |
| C373,74 | ECUX1H103ZFV | C. CAPACITOR CH 50V 0.01U | 2 | |
| C375 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C376 | ECUX1H331JCV | C. CAPACITOR CH 50V 330P | 1 | |
| C377 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C378 | ECUX1H103ZFV | C. CAPACITOR CH 50V 0.01U | 1 | |
| C379 | ECEA0JKA101 | E. CAPACITOR 6.3V 100U | 1 | |
| C380 | ECUX1H470JCV | C. CAPACITOR CH 50V 47P | 1 | |
| C381 | ECUX1H103ZFV | C. CAPACITOR CH 50V 0.01U | 1 | |
| C382 | ECUX1C104ZFV | C. CAPACITOR CH 16V 0.1U | 1 | |
| C383 | ECQB1H332JF | P. CAPACITOR 50V 3300P | 1 | |
| C0701,02 | ECUX1H103ZFV | C. CAPACITOR CH 50V 0.01U | 2 | |
| C0704 | ECUX1H331JCV | C. CAPACITOR CH 50V 330P | 1 | |
| C0706 | ECEA1HKA0R1 | E. CAPACITOR 50V 0.1U | 1 | |
| C0707,08 | ECUX1H103ZFV | C. CAPACITOR CH 50V 0.01U | 2 | |
| C0709 | ECUX1H120JCV | C. CAPACITOR CH 50V 12P | 1 | |
| C0710 | ECUX1H470JPV | C. CAPACITOR CH 50V 47P | 1 | |
| C0711 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 1 | |
| C0712 | ECUX1H103ZFV | C. CAPACITOR CH 50V 0.01U | 1 | |
| C0714 | ECQB1H473JF | P. CAPACITOR 50V 0.047U | 1 | |
| C0715 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C0716 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 1 | |
| C0717 | ECUX1H270JPV | C. CAPACITOR CH 50V 27P | 1 | |
| C0718 | ECEA1HKSR47 | E. CAPACITOR 50V 0.47U | 1 | |
| C0719 | ECUX1H060DCV | C. CAPACITOR CH 50V 6P | 1 | |
| C0720 | ECUX1H103ZFV | C. CAPACITOR CH 50V 0.01U | 1 | |
| C0723 | ECEA1HKA0R1 | E. CAPACITOR 50V 0.1U | 1 | |
| C0726 | ECUX1H103ZFV | C. CAPACITOR CH 50V 0.01U | 1 | |
| C0730 | ECUX1H103ZFV | C. CAPACITOR CH 50V 0.01U | 1 | |
| C0732 | ECUX1H103ZFV | C. CAPACITOR CH 50V 0.01U | 1 | |
| C851 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 1 | |
| C852,53 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 2 | |
| C854 | ECEA1HKA0R1 | E. CAPACITOR 50V 0.1U | 1 | |
| C855,56 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 2 | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| C857 | ECEA1HKA0R1 | E. CAPACITOR 50V 0.1U | 1 | |
| C858 | ECUM1H472KBN | C. CAPACITOR CH 50V 4700P | 1 | |
| C859 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C860,61 | ECEA1HKA010 | E. CAPACITOR 50V 1U | 2 | |
| C862,63 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 2 | |
| C864 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 1 | |
| C865 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C867 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C1001 | ECA1CM101 | E. CAPACITOR 16V 100U | 1 | |
| C1002 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C1003 | ECA1CM470 | E. CAPACITOR 16V 47U | 1 | |
| C1004 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C1005 | ECEA0JKA220 | E. CAPACITOR 6.3V 22U | 1 | |
| C1006 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C1007 | ECEA0JKA101 | E. CAPACITOR 6.3V 100U | 1 | |
| C1008 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C1009 | ECEA0JKA220 | E. CAPACITOR 6.3V 22U | 1 | |
| C1010 | ECEA0JKA101 | E. CAPACITOR 6.3V 100U | 1 | |
| C1011 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C1012 | ECEA0JKA101 | E. CAPACITOR 6.3V 100U | 1 | |
| C1013 | ECEA0JKA220 | E. CAPACITOR 6.3V 22U | 1 | |
| C2001 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C2002,03 | ECUM1H102KBN | C. CAPACITOR CH 50V 1000P | 2 | |
| C2004 | ECUM1H223KBN | C. CAPACITOR CH 50V 0.022U | 1 | |
| C2005 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C2006 | ECUM1H392KBN | C. CAPACITOR CH 50V 3900P | 1 | |
| C2007 | ECUM1H472KBN | C. CAPACITOR CH 50V 4700P | 1 | |
| C2008 | ECQV1H683JM | P. CAPACITOR 50V 0.068U | 1 | |
| C2009 | ECEA0JKA221 | E. CAPACITOR 6.3V 220U | 1 | |
| C2010 | ECUM1H471JCN | C. CAPACITOR CH 50V 470P | 1 | |
| C2011 | ECEA0JKA221 | E. CAPACITOR 6.3V 220U | 1 | |
| C2012 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 1 | |
| C2013 | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P | 1 | |
| C2014 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C2015 | ECEA0JKA470 | E. CAPACITOR 6.3V 47U | 1 | |
| C2016,17 | ECEA1EKN3R3 | E. CAPACITOR 25V 3.3U | 2 | |
| C2018 | ECEA1EKA4R7 | E. CAPACITOR 25V 4.7U | 1 | |
| C2019,20 | ECUM1H102KBN | C. CAPACITOR CH 50V 1000P | 2 | |
| C2021,22 | ECUM1C105ZFN | C. CAPACITOR CH 16V 1U | 2 | |
| C2023 | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P | 1 | |
| C2024,25 | ECEA1HKA2R2 | E. CAPACITOR 50V 2.2U | 2 | |
| C2026 | ECEA1HKNR22 | E. CAPACITOR 50V 0.22U | 1 | |
| C2027 | ECA1EM470 | E. CAPACITOR 25V 47U | 1 | |
| C2028 | ECEA1HKA010 | E. CAPACITOR 50V 1U | 1 | |
| C2029 | ECA1EM470 | E. CAPACITOR 25V 47U | 1 | |
| C2030,31 | ECUM1E333KBN | C. CAPACITOR CH 25V 0.033U | 2 | |
| C2032 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C2033 | ECA0JM221 | E. CAPACITOR 6.3V 220U | 1 | |
| C2035 | ECUM1E333KBN | C. CAPACITOR CH 25V 0.033U | 1 | |
| C2036 | ECQV1H683JM | P. CAPACITOR 50V 0.068U | 1 | |
| C2037 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C2038-40 | ECUM1E333KBN | C. CAPACITOR CH 25V 0.033U | 3 | |
| C2041,42 | ECUM1H680JCN | C. CAPACITOR CH 50V 68P | 2 | |
| C2043,44 | ECUM1C474ZFN | C. CAPACITOR CH 16V 0.47U | 2 | |
| C2045 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C2046 | ECEA1HKA2R2 | E. CAPACITOR 50V 2.2U | 1 | |
| C2053 | ECEA1HKAR47 | E. CAPACITOR 50V 0.47U | 1 | |
| C3001 | ECUM1H620JCN | C. CAPACITOR CH 50V 62P | 1 | |
| C3002 | ECUM1H181JCN | C. CAPACITOR CH 50V 180P | 1 | |
| C3003 | ECUM1H220JCN | C. CAPACITOR CH 50V 22P | 1 | |
| C3004 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C3006 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C3007 | ECEA0JKA221 | E. CAPACITOR 6.3V 220U | 1 | |
| C3008 | ECUM1H102KBN | C. CAPACITOR CH 50V 1000P | 1 | |
| C3009 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C3010 | ECUM1C105ZFN | C. CAPACITOR CH 16V 1U | 1 | |
| C3017,18 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 2 | |
| C3019 | ECUM1H620JCN | C. CAPACITOR CH 50V 62P | 1 | |
| C3021 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C3023 | ECEA1CKA470 | E. CAPACITOR 16V 47U | 1 | |
| C3024 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C3027 | ECEA0JKA470 | E. CAPACITOR 6.3V 47U | 1 | |
| C3028 | ECUM1H151JCN | C. CAPACITOR CH 50V 150P | 1 | |
| C3029 | ECUM1H220JCN | C. CAPACITOR CH 50V 22P | 1 | |
| C3031 | ECUM1H220JCN | C. CAPACITOR CH 50V 22P | 1 | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| C3032 | ECUM1H681JCN | C. CAPACITOR CH 50V 680P | 1 | |
| C3033 | ECUM1H330JCN | C. CAPACITOR CH 50V 33P | 1 | |
| C3043 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C3046, 47 | ECUM1H102KBN | C. CAPACITOR CH 50V 1000P | 2 | |
| C3055 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C3057 | ECUM1H180JCN | C. CAPACITOR CH 50V 18P | 1 | |
| C3061 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C3062 | ECEA0JKA470 | E. CAPACITOR 6.3V 47U | 1 | |
| C3063 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 1 | |
| C3066 | ECKF1H102KB | C. CAPACITOR 50V 1000P | 1 | |
| C4002-04 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 3 | |
| C4005 | ECCD2H181J | C. CAPACITOR 500V 180P | 1 | |
| C4006 | ECEA1CKA330 | E. CAPACITOR 16V 33U | 1 | |
| C4007 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C4009 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 1 | |
| C4010 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C4011 | ECQP1222JZ | P. CAPACITOR 100V 2200P | 1 | |
| C4012 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C4013 | ECUM1H472KBN | C. CAPACITOR CH 50V 4700P | 1 | |
| C4014 | ECQP1203JZ3 | P. CAPACITOR 100V 0.02U | 1 | [SUPPLIED FROM MBV] |
| C4015 | ECUM1H391JCN | C. CAPACITOR CH 50V 390P | 1 | |
| C4016 | ECEA1CKA330 | E. CAPACITOR 16V 33U | 1 | |
| C4017 | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 1 | |
| C4018-20 | ECEA1HKA0R1 | E. CAPACITOR 50V 0.1U | 3 | |
| C4021 | ECUM1H153KBN | C. CAPACITOR CH 50V 0.015U | 1 | |
| C4022 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C4023 | ECUM1C105ZFN | C. CAPACITOR CH 16V 1U | 1 | |
| C4024 | ECUM1H272KBN | C. CAPACITOR CH 50V 2700P | 1 | |
| C4025, 26 | ECEA1CKA220 | E. CAPACITOR 16V 22U | 2 | |
| C4027 | ECEA1HKA3R3 | E. CAPACITOR 50V 3.3U | 1 | |
| C4028 | ECEA1CKA470 | E. CAPACITOR 16V 47U | 1 | |
| C4029 | ECUM1H391JCN | C. CAPACITOR CH 50V 390P | 1 | |
| C4030 | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 1 | |
| C4031 | ECEA1AKA101 | E. CAPACITOR 10V 100U | 1 | |
| C4032 | ECUM1H822KBN | C. CAPACITOR CH 50V 8200P | 1 | |
| C4033, 34 | ECUM1H471JCN | C. CAPACITOR CH 50V 470P | 2 | |
| C4038 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C4039 | ECUM1H220JCN | C. CAPACITOR CH 50V 22P | 1 | |
| C4040 | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 1 | |
| C4041 | ECUM1H151JCN | C. CAPACITOR CH 50V 150P | 1 | |
| C4042 | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P | 1 | |
| C4044 | ECEA1HKA4R7 | E. CAPACITOR 50V 4.7U | 1 | |
| C4501 | ECUX1H681JCV | C. CAPACITOR CH 50V 680P | 1 | |
| C4502 | ECUX1H561JCV | C. CAPACITOR CH 50V 560P | 1 | |
| C4503 | ECUX1H102KBV | C. CAPACITOR CH 50V 1000P | 1 | |
| C4506 | ECEA1CU100 | E. CAPACITOR 16V 10U | 1 | |
| C4507 | ECQB1H223JF | P. CAPACITOR 50V 0.022U | 1 | |
| C4508 | ECEA1EU4R7 | E. CAPACITOR 25V 4.7U | 1 | |
| C4509 | ECEA1AU470 | E. CAPACITOR 10V 47U | 1 | |
| C4510 | ECQB1H103JF | P. CAPACITOR 50V 0.01U | 1 | |
| C4511 | ECQB1H332JF | P. CAPACITOR 50V 3300P | 1 | |
| C4512 | ECUX1H561JCV | C. CAPACITOR CH 50V 560P | 1 | |
| C4513 | ECUM1H681JCN | C. CAPACITOR CH 50V 680P | 1 | |
| C4514 | ECUM1H561JCN | C. CAPACITOR CH 50V 560P | 1 | |
| C4515 | ECEA1EU4R7 | E. CAPACITOR 25V 4.7U | 1 | |
| C4521 | ECUM1H473KBN | C. CAPACITOR CH 50V 0.047U | 1 | |
| C4522 | ECEA1EU4R7 | E. CAPACITOR 25V 4.7U | 1 | |
| C4530 | ECEA0JU470 | E. CAPACITOR 6.3V 47U | 1 | |
| C4533 | ECEA1AU470 | E. CAPACITOR 10V 47U | 1 | |
| C4537 | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 1 | |
| C4538 | ECEA1HUR47 | E. CAPACITOR 50V 0.47U | 1 | |
| C4541 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C4551 | ECQB1H223JF | P. CAPACITOR 50V 0.022U | 1 | |
| C4556 | ECEA1CU100 | E. CAPACITOR 16V 10U | 1 | |
| C4558 | ECEA1EU4R7 | E. CAPACITOR 25V 4.7U | 1 | |
| C4559 | ECEA1AU470 | E. CAPACITOR 10V 47U | 1 | |
| C4560 | ECQB1H103JF | P. CAPACITOR 50V 0.01U | 1 | |
| C4561 | ECQB1H332JF | P. CAPACITOR 50V 3300P | 1 | |
| C4562 | ECUX1H561JCV | C. CAPACITOR CH 50V 560P | 1 | |
| C4565 | ECEA1EU4R7 | E. CAPACITOR 25V 4.7U | 1 | |
| C4568 | ECFF1H104ZF5 | C. CAPACITOR 50V 0.1U | 1 | |
| C4572 | ECEA1EU4R7 | E. CAPACITOR 25V 4.7U | 1 | |
| C4576 | ECUM1H473KBN | C. CAPACITOR CH 50V 0.047U | 1 | |
| C4585, 86 | ECEA0JU101 | E. CAPACITOR 6.3V 100U | 2 | |
| C4587 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| C4591 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C4592 | ECUX1H102KBV | C. CAPACITOR CH 50V 1000P | 1 | |
| C4671, 72 | ECEA1CU100 | E. CAPACITOR 16V 10U | 2 | |
| C4674 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C4675 | ECFF1H104ZF5 | C. CAPACITOR 50V 0.1U | 1 | |
| C4676 | ECA1VM470 | E. CAPACITOR 35V 47U | 1 | |
| C4677 | ECEA1CU470 | E. CAPACITOR 16V 47U | 1 | |
| C5005 | ECEA1HKA3R3 | E. CAPACITOR 50V 3.3U | 1 | |
| C5006 | ECUM1H150JCN | C. CAPACITOR CH 50V 15P | 1 | |
| C5007-09 | ECUM1H330JCN | C. CAPACITOR CH 50V 33P | 3 | |
| C5012, 13 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 2 | |
| C5014 | ECEA0JKA470 | E. CAPACITOR 6.3V 47U | 1 | |
| C5015, 16 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 2 | |
| C5701 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C5702 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 1 | |
| C5703 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C5704 | ECEA0JKA221 | E. CAPACITOR 6.3V 220U | 1 | |
| C5705, 06 | ECUM1H121JCN | C. CAPACITOR CH 50V 120P | 2 | |
| C5707 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C5708, 09 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 2 | |
| C5710 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C5801 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 1 | |
| C5802 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C5803 | ECEA0JKA470 | E. CAPACITOR 6.3V 47U | 1 | |
| C5804 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C5805 | ECUX1H050DCN | C. CAPACITOR CH 50V 5P | 1 | |
| C5806 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C5807 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C6001 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C6002 | ECUM1C224ZFN | C. CAPACITOR CH 16V 0.22U | 1 | |
| C6003 | ECEA1HKA2R2 | E. CAPACITOR 50V 2.2U | 1 | |
| C6004 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C6005 | ECEA0JKA470 | E. CAPACITOR 6.3V 47U | 1 | |
| C6006 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C6007 | ECEA0JKA101 | E. CAPACITOR 6.3V 100U | 1 | |
| C6008 | ECUM1H270JCN | C. CAPACITOR CH 50V 27P | 1 | |
| C6009 | ECUM1H150JCN | C. CAPACITOR CH 50V 15P | 1 | |
| C6010 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C6011-14 | ECUM1H271JCN | C. CAPACITOR CH 50V 270P | 4 | |
| C6015 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 1 | |
| C6016 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C6017 | ECUX1H561JCN | C. CAPACITOR CH 50V 560P | 1 | |
| C6018 | ECUM1H104ZFM | C. CAPACITOR CH 50V 0.1U | 1 | |
| C6024 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C7301, 02 | ECUX1H103ZFV | C. CAPACITOR CH 50V 0.01U | 2 | |
| C7303 | ECEA1CKA470 | E. CAPACITOR 16V 47U | 1 | |
| C7304 | ECUX1H103ZFV | C. CAPACITOR CH 50V 0.01U | 1 | |
| C7305 | ECEA1CKA220 | E. CAPACITOR 16V 22U | 1 | |
| C7306 | ECUX1H391JCV | C. CAPACITOR CH 50V 390P | 1 | |
| C7309-12 | ECUX1H103ZFV | C. CAPACITOR CH 50V 0.01U | 4 | |
| C7313 | ECEA0JKA220 | E. CAPACITOR 6.3V 22U | 1 | |
| C7314 | ECUX1H103ZFV | C. CAPACITOR CH 50V 0.01U | 1 | |
| C7315 | ECEA1EKA4R7 | E. CAPACITOR 25V 4.7U | 1 | |
| C7317 | ECUX1H090DCV | C. CAPACITOR CH 50V 9P | 1 | |
| C7319 | ECRHA020D54R | V. CAPACITOR 50K | 1 | |
| C7320 | ECEA0JKA101 | E. CAPACITOR 6.3V 100U | 1 | |
| C7321 | ECUX1H103ZFV | C. CAPACITOR CH 50V 0.01U | 1 | |
| C7322 | ECEA1EKA4R7 | E. CAPACITOR 25V 4.7U | 1 | |
| C7323, 24 | ECUX1H391JCV | C. CAPACITOR CH 50V 390P | 2 | |
| C7325, 26 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 2 | |
| C7327 | ECUX1C104ZFV | C. CAPACITOR CH 16V 0.1U | 1 | |
| C7328 | ECEA1CKA470 | E. CAPACITOR 16V 47U | 1 | |
| C7329, 30 | ECUX1H471JCV | C. CAPACITOR CH 50V 470P | 2 | |
| C7331 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 1 | |
| C7332, 33 | ECUX1C104ZFV | C. CAPACITOR CH 16V 0.1U | 2 | |
| C7334 | ECEA0JKA101 | E. CAPACITOR 6.3V 100U | 1 | |
| C7335 | ECUX1C104ZFV | C. CAPACITOR CH 16V 0.1U | 1 | |
| C7338 | ECUM1H471JCN | C. CAPACITOR CH 50V 470P | 1 | |
| C7339 | ECUM1H182KBM | C. CAPACITOR CH 50V 1800P | 1 | |
| C7340 | ECUM1H270JCN | C. CAPACITOR CH 50V 27P | 1 | |
| C7341 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 1 | |
| C7342 | ECUM1H561JCN | C. CAPACITOR CH 50V 560P | 1 | |
| C7343 | ECEA1HKA010 | E. CAPACITOR 50V 1U | 1 | |
| C7344 | ECUM1H471JCN | C. CAPACITOR CH 50V 470P | 1 | |
| C7345 | ECUM1H182KBM | C. CAPACITOR CH 50V 1800P | 1 | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| C7346 | ECUM1H270JCN | C. CAPACITOR CH 50V 27P | 1 | |
| C7347 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 1 | |
| C7348 | ECUM1H561JCN | C. CAPACITOR CH 50V 560P | 1 | |
| C7350 | ECEA1HKA010 | E. CAPACITOR 50V 1U | 1 | |
| C7351 | ECUM1H471JCN | C. CAPACITOR CH 50V 470P | 1 | |
| C7352 | ECUM1H182KBM | C. CAPACITOR CH 50V 1800P | 1 | |
| C7353 | ECUM1H270JCN | C. CAPACITOR CH 50V 27P | 1 | |
| C7354 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 1 | |
| C7355 | ECUM1H561JCN | C. CAPACITOR CH 50V 560P | 1 | |
| C7357 | ECUX1C104ZFV | C. CAPACITOR CH 16V 0.1U | 1 | |
| C7358 | ECEA1HKA3R3 | E. CAPACITOR 50V 3.3U | 1 | |
| C7359 | ECUX1C104ZFV | C. CAPACITOR CH 16V 0.1U | 1 | |
| C7365 | ECEA1HKA010 | E. CAPACITOR 50V 1U | 1 | |
| C7369 | ECEA0JKA470 | E. CAPACITOR 6.3V 47U | 1 | |
| C7370 | ECUX1C104ZFV | C. CAPACITOR CH 16V 0.1U | 1 | |
| C7371, 72 | ECUX1H103ZFV | C. CAPACITOR CH 50V 0.01U | 2 | |
| C7374, 75 | ECUX1H150JCV | C. CAPACITOR CH 50V 15P | 2 | |
| C7601, 02 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 2 | |
| C7603 | ECEA1CKA101 | E. CAPACITOR 16V 100U | 1 | |
| C7604 | ECEA0JKA101 | E. CAPACITOR 6.3V 100U | 1 | |
| C7605 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C7606 | ECEA1CKA101 | E. CAPACITOR 16V 100U | 1 | |
| C7607 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C7608 | ECUM1C105ZFN | C. CAPACITOR CH 16V 1U | 1 | |
| C7609 | ECEA0JKA101 | E. CAPACITOR 6.3V 100U | 1 | |
| C7610, 11 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 2 | |
| C7612 | ECEA0JKA101 | E. CAPACITOR 6.3V 100U | 1 | |
| C7613 | ECUM1H180JCN | C. CAPACITOR CH 50V 18P | 1 | |
| C7614 | ECEA1HKA100 | E. CAPACITOR 50V 10U | 1 | |
| C7615 | ECEA1HKA010 | E. CAPACITOR 50V 1U | 1 | |
| C7616 | ECUM1E104KBN | C. CAPACITOR CH 25V 0.1U | 1 | |
| C7617 | ECEA1AKS221 | E. CAPACITOR 10V 220U | 1 | |
| C7701 | ECUM1H150JCN | C. CAPACITOR CH 50V 15P | 1 | |
| C7702 | ECUM1H080DCN | C. CAPACITOR CH 50V 8P | 1 | |
| C7703 | ECUM1C224ZFN | C. CAPACITOR CH 16V 0.22U | 1 | |
| C7704, 05 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 2 | |
| C7706 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C7707-10 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 4 | |
| C7712 | ECEA0JKA470 | E. CAPACITOR 6.3V 47U | 1 | |
| C7713 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 1 | |
| C7714 | ECEA0JKA470 | E. CAPACITOR 6.3V 47U | 1 | |
| C7715 | ECEA1CKN100 | E. CAPACITOR 16V 10U | 1 | |
| C7716 | ECUM1H120JCN | C. CAPACITOR CH 50V 12P | 1 | |
| C7718 | ECUX1H561JCN | C. CAPACITOR CH 50V 560P | 1 | |
| C7719 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C7720 | ECEA0JKA470 | E. CAPACITOR 6.3V 47U | 1 | |
| C7721 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C7723 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C7724 | ECEA0JKA470 | E. CAPACITOR 6.3V 47U | 1 | |
| C7727 | ECEA0JKA470 | E. CAPACITOR 6.3V 47U | 1 | |
| C7729 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C7731 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C7732 | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 1 | |
| C7734 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C7736 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C7737 | ECEA0JKA470 | E. CAPACITOR 6.3V 47U | 1 | |
| C7738, 39 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 2 | |
| C7742 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C7743 | ECUM1C105ZFN | C. CAPACITOR CH 16V 1U | 1 | |
| C7744 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C7745 | ECUM1C224ZFN | C. CAPACITOR CH 16V 0.22U | 1 | |
| C7746, 47 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 2 | |
| C7748 | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 1 | |
| C7749 | ECUM1H473ZFN | C. CAPACITOR CH 50V 0.047U | 1 | |
| C7750 | ECUM1C224ZFN | C. CAPACITOR CH 16V 0.22U | 1 | |
| | | | | |
| D301 | MA723 | DIODE | 1 | |
| D303 | 1SS355 | DIODE | 1 | |
| D305 | 1SS355 | DIODE | 1 | |
| D306 | 1SS254 | DIODE | 1 | |
| D307 | 1SS355 | DIODE | 1 | |
| D310 | 1SS355 | DIODE | 1 | |
| D313, 14 | 1SS355 | DIODE | 2 | |
| D315, 16 | 1SS254 | DIODE | 2 | |
| D317, 18 | 1SS355 | DIODE | 2 | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| D319, 20 | MA151WK | DIODE | 2 | |
| D321 | 1SS355 | DIODE | 1 | |
| D1001 | MA4051-L | DIODE | 1 | |
| D1003 | MA4120-M | DIODE | 1 | |
| D1004 | MA4051-L | DIODE | 1 | |
| D1005 | 1SS355 | DIODE | 1 | |
| D1007, 08 | 1SS355 | DIODE | 2 | |
| D1009 | 1SS254 | DIODE | 1 | |
| D2001 | MA153 | DIODE | 1 | |
| D2002 | MA151K | DIODE | 1 | |
| D2003-05 | 1SS355 | DIODE | 3 | |
| D2006, 07 | MA700 | DIODE | 2 | |
| D2008, 09 | MA185 | DIODE | 2 | |
| D3001-03 | 1SS254 | DIODE | 3 | |
| D3005 | MA723 | DIODE | 1 | |
| D3015 | 1SS355 | DIODE | 1 | |
| D3016 | MA700A | DIODE | 1 | |
| D4001 | 1SS254 | DIODE | 1 | |
| D4003-05 | 1SS254 | DIODE | 3 | |
| D4504 | 1SS254 | DIODE | 1 | |
| D5801-04 | 1SS355 | DIODE | 4 | |
| D6001 | LN59LT. VT | LED | 1 | |
| D6002 | MA4075-L | DIODE | 1 | |
| D6003 | MA151K | DIODE | 1 | |
| D6006 | MA151K | DIODE | 1 | |
| D6007, 08 | 1SS254 | DIODE | 2 | |
| D7301 | MA3082-L | DIODE | 1 | |
| D7302 | MA151K | DIODE | 1 | |
| D7303 | MA151WK | DIODE | 1 | |
| D7304 | MA717 | DIODE | 1 | |
| D7306 | MA151WK | DIODE | 1 | |
| D7601 | MA4300-M | DIODE | 1 | |
| D7702 | 1SS355 | DIODE | 1 | |
| D7704 | MA700A | DIODE | 1 | |
| | | | | |
| DL301 | VLD0198 | DELAY LINE | 1 | |
| DL7701 | ELB4Y026 | FILTER | 1 | |
| | | | | |
| FL7301, 02 | VLF0633 | FILTER | 2 | |
| | | | | |
| IC301 | TDA9725 | IC | 1 | [SUPPLIED FROM MBV] |
| IC302 | MSM7403MS | IC | 1 | |
| IC303 | M52352FP | IC | 1 | |
| IC0701 | LA7576 | IC | 1 | |
| IC851 | TA1225N | IC | 1 | |
| IC1001 | HA17431PA | IC | 1 | |
| IC2001 | BA6887-V3 | IC | 1 | |
| IC2002 | BA6871BS | IC | 1 | |
| IC4001 | BA7795FS | IC | 1 | |
| IC4501 | BH7778AK | IC | 1 | |
| IC4502 | MC14052BF | IC | 1 | |
| IC4503 | BA7735FS | IC | 1 | [SUPPLIED FROM MBV] |
| IC5701 | MM1188XS | IC | 1 | [SUPPLIED FROM MBV] |
| IC6001 | MN6755486H4N | IC | 1 | [SUPPLIED FROM MBV] |
| IC6002, 03 | ON1387 | IC | 2 | |
| IC7301 | MSP3410-15 | IC | 1 | |
| IC7302 | PST7043 | IC | 1 | |
| IC7303 | M5238FP | IC | 1 | |
| IC7304 | HA17431PA | IC | 1 | |
| IC7305 | MN155402VZDB | IC | 1 | |
| IC7306 | PST7043 | IC | 1 | |
| IC7701 | M27C512MBTA | IC | 1 | [SUPPLIED FROM MBV] |
| IC7702 | 74HCT573D | IC | 1 | |
| IC7703 | NJM2535M | IC | 1 | [SUPPLIED FROM MBV] |
| IC7704 | ST24W16FB6 | IC | 1 | [SUPPLIED FROM MBV] |
| IC7705 | TDA8501 | IC | 1 | |
| IC7706 | P83C528MAAC | IC | 1 | [SUPPLIED FROM MBV] |
| IC7707 | MC74HC164FL2 | IC | 1 | |
| IC7708 | SAA5281ZPM3 | IC | 1 | |
| IC7709 | MC74HC161AF2 | IC | 1 | |
| IC7710 | UPC393G2 | IC | 1 | |
| IC7711 | PST7043 | IC | 1 | |
| | | | | |
| K309 | ERJ6GEY0R00 | M. RESISTOR CH 1/10W 0 | 1 | |
| K315 | ERJ6GEY0R00 | M. RESISTOR CH 1/10W 0 | 1 | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| K318 | ERJ3GEY0R00 | M.RESISTOR CH 1/16W 0 | 1 | |
| K0702 | ERJ3GEY0R00 | M.RESISTOR CH 1/16W 0 | 1 | |
| K0704,05 | ERJ3GEY0R00 | M.RESISTOR CH 1/16W 0 | 2 | |
| K1001 | ERJ6GMZ0R00 | M.RESISTOR CH 1/10W 0 | 1 | |
| K3005 | ERJ6GMZ0R00 | M.RESISTOR CH 1/10W 0 | 1 | |
| K3040 | ERJ6GMZ0R00 | M.RESISTOR CH 1/10W 0 | 1 | |
| K4001 | ERJ6GMZ0R00 | M.RESISTOR CH 1/10W 0 | 1 | |
| K4003 | ERJ6GMZ0R00 | M.RESISTOR CH 1/10W 0 | 1 | |
| K4009 | ERJ6GMZ0R00 | M.RESISTOR CH 1/10W 0 | 1 | |
| K4503,04 | ERJ3GEY0R00 | M.RESISTOR CH 1/16W 0 | 2 | |
| K4651 | ERJ6GEY0R00 | M.RESISTOR CH 1/10W 0 | 1 | |
| K5801 | ERJ6GEY0R00 | M.RESISTOR CH 1/10W 0 | 1 | |
| K6001 | ERJ6GMZ0R00 | M.RESISTOR CH 1/10W 0 | 1 | |
| K6003 | ERJ6GMZ0R00 | M.RESISTOR CH 1/10W 0 | 1 | |
| K7305-07 | ERJ3GEY0R00 | M.RESISTOR CH 1/16W 0 | 3 | |
| K7314 | ERJ3GEY0R00 | M.RESISTOR CH 1/16W 0 | 1 | |
| K7317 | ERJ3GEY0R00 | M.RESISTOR CH 1/16W 0 | 1 | |
| K7604 | ERJ6GMZ0R00 | M.RESISTOR CH 1/10W 0 | 1 | |
| K7619 | ERJ6GMZ0R00 | M.RESISTOR CH 1/10W 0 | 1 | |
| K7704 | ERJ6GMZ0R00 | M.RESISTOR CH 1/10W 0 | 1 | |
| K7706 | ERJ6GMZ0R00 | M.RESISTOR CH 1/10W 0 | 1 | |
| K7709 | ERJ6GMZ0R00 | M.RESISTOR CH 1/10W 0 | 1 | |
| | | | | |
| L301 | VLQ0599J151 | COIL 150UH | 1 | |
| L302 | VLQ0599J6R8 | COIL 6.8UH | 1 | |
| L303 | VLQ0599J100 | COIL 10UH | 1 | |
| L304 | VLQ0599J390 | COIL 39UH | 1 | |
| L305 | VLQ0599J680 | COIL 68UH | 1 | |
| L306,07 | VLQ0599J390 | COIL 39UH | 2 | |
| L308 | VLQ0599J150 | COIL 15UH | 1 | |
| L309 | VLQ0599J470 | COIL 47UH | 1 | |
| L311 | VLQ0599J150 | COIL 15UH | 1 | |
| L312 | VLQ0599J680 | COIL 68UH | 1 | |
| L0701 | VLQ0163JR22 | COIL 0.22UH | 1 | |
| L0705 | VLQ0163J2R7 | COIL 2.7UH | 1 | |
| L0706 | VLQEL05S8R2K | COIL 8.2UH | 1 | |
| L851,52 | VLQ0599J680 | COIL 68UH | 2 | |
| L853-57 | ERJ6GMZ0R00 | M.RESISTOR CH 1/10W 0 | 5 | |
| L2001 | VLP0083 | COIL | 1 | |
| L3001 | VLQ0599J820 | COIL 82UH | 1 | |
| L3002 | VLQ0599J151 | COIL 150UH | 1 | |
| L3003 | VLQ0599J6R8 | COIL 6.8UH | 1 | |
| L3004 | VLQ0599J120 | COIL 12UH | 1 | |
| L3006 | VLQ0599J101 | COIL 100UH | 1 | |
| L3008 | VLQ0599J270 | COIL 27UH | 1 | |
| L3009 | VLQ0599J680 | COIL 68UH | 1 | |
| L3012 | VLQ0599J680 | COIL 68UH | 1 | |
| L3013 | VLP0099 | COIL | 1 | |
| L4001 | ELESE101KA | COIL 100UH | 1 | |
| L4002 | ELESN471KA | COIL 470UH | 1 | |
| L4003 | VLQ0599J680 | COIL 68UH | 1 | |
| L4005,06 | VLP0150 | COIL | 2 | |
| L4007 | VLQ0123 | COIL | 1 | |
| L5001 | VLQ0599J680 | COIL 68UH | 1 | |
| L5002,03 | VLQ0599J270 | COIL 27UH | 2 | |
| L5004 | VLQ0599J150 | COIL 15UH | 1 | |
| L5701 | VLQ0599J680 | COIL 68UH | 1 | |
| L5702 | VLQ0599J101 | COIL 100UH | 1 | |
| L5801 | ELESE101KA | COIL 100UH | 1 | |
| L6001 | ELESE101KA | COIL 100UH | 1 | |
| L6002 | VLP0083 | COIL | 1 | |
| L6003,04 | VLQ0599J680 | COIL 68UH | 2 | |
| L7301 | ELEXH100JBV | COIL 10UH | 1 | |
| L7302 | VLP0150 | COIL | 1 | |
| L7601,02 | VLQ0599J1R0 | COIL 1UH | 2 | |
| L7603-05 | VLQ0599J680 | COIL 68UH | 3 | |
| L7606 | VLQ0599J2R2 | COIL 2.2UH | 1 | |
| L7607,08 | VLQ0599J680 | COIL 68UH | 2 | |
| L7701 | VLQ0599J100 | COIL 10UH | 1 | |
| L7702 | VLQ0599J3R3 | COIL 3.3UH | 1 | |
| L7704 | VLQ0599J100 | COIL 10UH | 1 | |
| L7705 | VLQ0599J101 | COIL 100UH | 1 | |
| L7707 | VLQ0599J120 | COIL 12UH | 1 | |
| | | | | |
| LB5701 | ERJ6GEY0R00 | M.RESISTOR CH 1/10W 0 | 1 | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| | | | | |
| P851 | VJR0777B011W | CONNECTOR (MALE) 11P | 1 | |
| P2001 | VJS3640A002 | CONNECTOR (FEMALE) 2P | 1 | |
| P2002 | VJS3537A015G | CONNECTOR (FEMALE) 15P | 1 | |
| P2003 | VJP3502 | CONNECTOR (MALE) | 1 | |
| P2004 | VJP1232T | CONNECTOR (MALE) 5P | 1 | |
| P3002 | VJS3537A020G | CONNECTOR (FEMALE) 20P | 1 | |
| P4002 | VJS3675E006G | CONNECTOR (FEMALE) 6P | 1 | |
| P4003 | VJP1230T | CONNECTOR (MALE) 3P | 1 | |
| P5001 | VJR0777B005W | CONNECTOR (MALE) 5P | 1 | |
| P5701 | VJR0777B006W | CONNECTOR (MALE) 6P | 1 | |
| P6001 | VJS3821 | CONNECTOR (FEMALE) 4P | 1 | |
| | | | | |
| PK301 | VJR0776B010W | CONNECTOR (MALE) 10P | 1 | |
| PK302 | VJR0776B011W | CONNECTOR (MALE) 11P | 1 | |
| PK303 | VJR0776B012W | CONNECTOR (MALE) 12P | 1 | |
| PK304 | VJR0776B003W | CONNECTOR (MALE) 3P | 1 | |
| PK0701 | VJR0816E010W | CONNECTOR (MALE) 10P | 1 | |
| PK4501 | VJR0777B008W | CONNECTOR (MALE) 8P | 1 | |
| PK4502 | VJR0777B013W | CONNECTOR (MALE) 13P | 1 | |
| PK4503 | VJR0777B010W | CONNECTOR (MALE) 10P | 1 | |
| PK5801 | VJR0777B007W | CONNECTOR (MALE) 7P | 1 | |
| PK7301 | VJR0777B009W | CONNECTOR (MALE) 9P | 1 | |
| PK7302 | VJR0777B008W | CONNECTOR (MALE) 8P | 1 | |
| | | | | |
| PP0701 | VJP3589A004B | CONNECTOR (MALE) 4P | 1 | |
| PP3002 | VJP3042G013W | CONNECTOR (MALE) 13P | 1 | |
| PP3003,04 | VJP3042G007W | CONNECTOR (MALE) 7P | 2 | |
| PP3005 | VJP3042A010W | CONNECTOR (MALE) 10P | 1 | |
| | | | | |
| PS3001 | VJS3673F014G | CONNECTOR (FEMALE) 14P | 1 | [SUPPLIED FROM MBV] |
| PS3006 | VJS3631A011A | CONNECTOR (FEMALE) 11P | 1 | |
| PS6002 | VJS3673B025G | CONNECTOR (FEMALE) 25P | 1 | |
| | | | | |
| Q301,02 | MSC2295 | TRANSISTOR | 2 | |
| Q304 | MSC2295 | TRANSISTOR | 1 | |
| Q305 | MSD601 | TRANSISTOR | 1 | |
| Q306 | MSB709 | TRANSISTOR | 1 | |
| Q307 | MSB709-R | TRANSISTOR | 1 | |
| Q0701 | MSD601-S | TRANSISTOR | 1 | |
| Q0702 | MSB709-R | TRANSISTOR | 1 | |
| Q1001 | 2SD601A | TRANSISTOR | 1 | |
| Q1002-04 | 2SD1996-S | TRANSISTOR | 3 | |
| Q1005 | 2SD601A | TRANSISTOR | 1 | |
| Q1007 | 2SD2544QPQA | TRANSISTOR | 1 | |
| Q3001 | MSC2295 | TRANSISTOR | 1 | |
| Q3002 | MSB709 | TRANSISTOR | 1 | |
| Q3003,04 | MSD601 | TRANSISTOR | 2 | |
| Q3005 | MSC2295 | TRANSISTOR | 1 | |
| Q3006 | MSB709 | TRANSISTOR | 1 | |
| Q3007 | MSC2295 | TRANSISTOR | 1 | |
| Q3010 | MSB709-R | TRANSISTOR | 1 | |
| Q3011 | 2SD601A | TRANSISTOR | 1 | |
| Q3012 | 2SB1322 | TRANSISTOR | 1 | |
| Q3017 | MSC2295 | TRANSISTOR | 1 | |
| Q3020 | MSD601 | TRANSISTOR | 1 | |
| Q3023 | MSC2295 | TRANSISTOR | 1 | |
| Q3024 | MSD601 | TRANSISTOR | 1 | |
| Q4001 | 2SB709A-R | TRANSISTOR | 1 | |
| Q4002 | 2SD602A-R | TRANSISTOR | 1 | |
| Q4003,04 | MSD601 | TRANSISTOR | 2 | |
| Q4005 | 2SB1320A-R | TRANSISTOR | 1 | |
| Q4006 | 2SD602A-R | TRANSISTOR | 1 | |
| Q4007-09 | MSD601-R | TRANSISTOR | 3 | |
| Q4501 | 2SD1468 | TRANSISTOR | 1 | |
| Q4551 | 2SA1515 | TRANSISTOR | 1 | |
| Q5001 | MSB709 | TRANSISTOR | 1 | |
| Q5002 | MSD601 | TRANSISTOR | 1 | |
| Q5003 | 2SA1022 | TRANSISTOR | 1 | |
| Q5005 | XN1501 | TRANSISTOR-RESISTOR | 1 | |
| Q5006 | MSB709 | TRANSISTOR | 1 | |
| Q5007 | MSC2295 | TRANSISTOR | 1 | |
| Q5008 | MSB709 | TRANSISTOR | 1 | |
| Q5009-13 | MSC2295 | TRANSISTOR | 5 | |
| Q5701 | MSC2295 | TRANSISTOR | 1 | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| Q5801 | MSB709 | TRANSISTOR | 1 | |
| Q5803 | MSC2295 | TRANSISTOR | 1 | |
| Q5804 | MSB709 | TRANSISTOR | 1 | |
| Q5805 | MSD601 | TRANSISTOR | 1 | |
| Q6001 | MSB709 | TRANSISTOR | 1 | |
| Q6002, 03 | PN205LT-NGVT | PHOTO TRANSISTOR | 2 | |
| Q7301, 02 | 2SD1996 | TRANSISTOR | 2 | |
| Q7304 | 2SC2404 | TRANSISTOR | 1 | |
| Q7305 | MSD601-S | TRANSISTOR | 1 | |
| Q7308 | 2SB709A | TRANSISTOR | 1 | |
| Q7310 | 2SB709A | TRANSISTOR | 1 | |
| Q7311-13 | MSD1328-S | TRANSISTOR | 3 | |
| Q7603 | 2SB710A | TRANSISTOR | 1 | |
| Q7703 | MSB709 | TRANSISTOR | 1 | |
| Q7705 | MSD601 | TRANSISTOR | 1 | |
| Q7706 | MSB709 | TRANSISTOR | 1 | |
| | | | | |
| QR302 | MUN2113 | TRANSISTOR-RESISTOR | 1 | |
| QR303 | MUN2212 | TRANSISTOR-RESISTOR | 1 | |
| QR304 | MUN2113 | TRANSISTOR-RESISTOR | 1 | |
| QR305 | MUN2213 | TRANSISTOR-RESISTOR | 1 | |
| QR311 | MUN2113 | TRANSISTOR-RESISTOR | 1 | |
| QR315 | MUN2213 | TRANSISTOR-RESISTOR | 1 | |
| QR317 | MUN2213 | TRANSISTOR-RESISTOR | 1 | |
| QR1001, 02 | MUN2113 | TRANSISTOR-RESISTOR | 2 | |
| QR1003 | MUN2211 | TRANSISTOR-RESISTOR | 1 | |
| QR3001 | MUN2111 | TRANSISTOR-RESISTOR | 1 | |
| QR3002, 03 | DTC363EK | TRANSISTOR-RESISTOR | 2 | |
| QR3004 | MUN2113 | TRANSISTOR-RESISTOR | 1 | |
| QR3007 | MUN2111 | TRANSISTOR-RESISTOR | 1 | |
| QR3008-12 | MUN2212 | TRANSISTOR-RESISTOR | 5 | |
| QR3018 | MUN2212 | TRANSISTOR-RESISTOR | 1 | |
| QR3026 | MUN2212 | TRANSISTOR-RESISTOR | 1 | |
| QR4001, 02 | MUN2212 | TRANSISTOR-RESISTOR | 2 | |
| QR4651, 52 | UN5213 | TRANSISTOR-RESISTOR | 2 | |
| QR6001 | XN1211 | TRANSISTOR-RESISTOR | 1 | |
| QR6002 | UN2114 | TRANSISTOR-RESISTOR | 1 | |
| QR6004 | XN1213 | TRANSISTOR-RESISTOR | 1 | |
| QR6005 | MUN2112 | TRANSISTOR-RESISTOR | 1 | |
| QR6006 | XN1211 | TRANSISTOR-RESISTOR | 1 | |
| QR6007 | MUN2211 | TRANSISTOR-RESISTOR | 1 | |
| QR7301 | MUN2213 | TRANSISTOR-RESISTOR | 1 | |
| QR7302 | MUN2112 | TRANSISTOR-RESISTOR | 1 | |
| QR7601, 02 | MUN2213 | TRANSISTOR-RESISTOR | 2 | |
| QR7701 | UN2216 | TRANSISTOR-RESISTOR | 1 | |
| QR7702 | UN2215 | TRANSISTOR-RESISTOR | 1 | |
| | | | | |
| R303 | ERJ3GEYJ182 | M. RESISTOR CH 1/16W 1.8K | 1 | |
| R306 | ERJ3GEYJ392 | M. RESISTOR CH 1/16W 3.9K | 1 | |
| R307 | ERJ3GEYJ271 | M. RESISTOR CH 1/16W 270 | 1 | |
| R308 | ERJ3GEYG102 | M. RESISTOR CH 1/16W 1K | 1 | |
| R309 | ERJ3GEYJ271 | M. RESISTOR CH 1/16W 270 | 1 | |
| R310, 11 | ERJ3GEYG152 | M. RESISTOR CH 1/16W 1.5K | 2 | |
| R312 | ERJ3GEYG472 | M. RESISTOR CH 1/16W 4.7K | 1 | |
| R313 | ERJ3GEYJ473 | M. RESISTOR CH 1/16W 47K | 1 | |
| R314 | ERJ3GEYJ683 | M. RESISTOR CH 1/16W 68K | 1 | |
| R315 | ERJ3GEYJ223 | M. RESISTOR CH 1/16W 22K | 1 | |
| R316 | ERJ3GEYJ103 | M. RESISTOR CH 1/16W 10K | 1 | |
| R317 | ERJ3GEYG472 | M. RESISTOR CH 1/16W 4.7K | 1 | |
| R319 | ERJ3GEYJ183 | M. RESISTOR CH 1/16W 18K | 1 | |
| R320 | ERJ3GEYJ821 | M. RESISTOR CH 1/16W 820 | 1 | |
| R321 | ERJ3GEYJ120 | M. RESISTOR CH 1/16W 12 | 1 | |
| R322 | ERJ3GEYJ223 | M. RESISTOR CH 1/16W 22K | 1 | |
| R323 | ERJ3GEYG472 | M. RESISTOR CH 1/16W 4.7K | 1 | |
| R324, 25 | ERJ3GEYJ103 | M. RESISTOR CH 1/16W 10K | 2 | |
| R326 | ERJ3GEYG472 | M. RESISTOR CH 1/16W 4.7K | 1 | |
| R327 | ERJ3GEYJ101 | M. RESISTOR CH 1/16W 100 | 1 | |
| R328 | ERJ3GEYJ561 | M. RESISTOR CH 1/16W 560 | 1 | |
| R329 | ERJ3GEYG471 | M. RESISTOR CH 1/16W 470 | 1 | |
| R330 | ERJ3GEYJ122 | M. RESISTOR CH 1/16W 1.2K | 1 | |
| R332 | ERJ3GEYJ390 | M. RESISTOR CH 1/16W 39 | 1 | |
| R333 | ERJ3GEYJ561 | M. RESISTOR CH 1/16W 560 | 1 | |
| R334 | ERJ6GEYG101 | M. RESISTOR CH 1/10W 100 | 1 | |
| R335 | ERJ3GEYJ122 | M. RESISTOR CH 1/16W 1.2K | 1 | |
| R336 | ERJ6GEYG271 | M. RESISTOR CH 1/10W 270 | 1 | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| R337 | ERJ3GEYJ561 | M. RESISTOR CH 1/16W 560 | 1 | |
| R338 | ERJ3GEYJ122 | M. RESISTOR CH 1/16W 1.2K | 1 | |
| R339 | ERJ3GEYJ273 | M. RESISTOR CH 1/16W 27K | 1 | |
| R341 | ERJ3GEYJ101 | M. RESISTOR CH 1/16W 100 | 1 | |
| R346 | ERJ3GEYJ473 | M. RESISTOR CH 1/16W 47K | 1 | |
| R350 | ERJ3GEYG152 | M. RESISTOR CH 1/16W 1.5K | 1 | |
| R351 | ERJ3GEY0R00 | M. RESISTOR CH 1/16W 0 | 1 | |
| R352, 53 | ERJ3GEYJ222 | M. RESISTOR CH 1/16W 2.2K | 2 | |
| R354 | ERJ3GEYJ392 | M. RESISTOR CH 1/16W 3.9K | 1 | |
| R355, 56 | ERJ3GEYJ681 | M. RESISTOR CH 1/16W 680 | 2 | |
| R357 | ERJ3GEYJ272 | M. RESISTOR CH 1/16W 2.7K | 1 | |
| R358 | ERJ3GEYJ122 | M. RESISTOR CH 1/16W 1.2K | 1 | |
| R359 | ERJ3GEYG152 | M. RESISTOR CH 1/16W 1.5K | 1 | |
| R360 | ERJ3GEYJ122 | M. RESISTOR CH 1/16W 1.2K | 1 | |
| R361 | ERJ6GEYG271 | M. RESISTOR CH 1/10W 270 | 1 | |
| R362 | ERJ3GEYJ154 | M. RESISTOR CH 1/16W 150K | 1 | |
| R363 | ERJ3GEYJ204 | M. RESISTOR CH 1/16W 200K | 1 | |
| R364 | ERJ6GEYG153 | M. RESISTOR CH 1/10W 15K | 1 | |
| R365 | ERJ3GEYJ103 | M. RESISTOR CH 1/16W 10K | 1 | |
| R366 | ERJ3GEYJ154 | M. RESISTOR CH 1/16W 150K | 1 | |
| R367 | ERJ3GEYJ103 | M. RESISTOR CH 1/16W 10K | 1 | |
| R369 | ERJ3GEYJ393 | M. RESISTOR CH 1/16W 39K | 1 | |
| R372 | ERJ3GEYJ562 | M. RESISTOR CH 1/16W 5.6K | 1 | |
| R0702 | ERJ3GEYJ272 | M. RESISTOR CH 1/16W 2.7K | 1 | |
| R0704 | ERJ3GEYJ222 | M. RESISTOR CH 1/16W 2.2K | 1 | |
| R0705 | ERJ3GEYJ562 | M. RESISTOR CH 1/16W 5.6K | 1 | |
| R0706, 07 | ERJ3GEYJ272 | M. RESISTOR CH 1/16W 2.7K | 2 | |
| R0708 | ERJ3GEYG152 | M. RESISTOR CH 1/16W 1.5K | 1 | |
| R0709 | ERJ3GEYJ105 | M. RESISTOR CH 1/16W 1M | 1 | |
| R0710 | ERJ6GEYG154 | M. RESISTOR CH 1/10W 150K | 1 | |
| R0713 | ERJ3GEYJ301 | M. RESISTOR CH 1/16W 300 | 1 | |
| R0714 | ERJ3GEYJ470 | M. RESISTOR CH 1/16W 47 | 1 | |
| R0715 | ERJ3GEYJ183 | M. RESISTOR CH 1/16W 18K | 1 | |
| R0716 | VRE0040E151 | M. RESISTOR CH 1/10W 150 | 1 | |
| R0717 | ERJ3GEY0R00 | M. RESISTOR CH 1/16W 0 | 1 | |
| R0718 | ERJ3GEYG102 | M. RESISTOR CH 1/16W 1K | 1 | |
| R0719 | ERJ6GEYF822 | M. RESISTOR CH 1/10W 8.2K | 1 | |
| R0720 | ERJ3GEYG102 | M. RESISTOR CH 1/16W 1K | 1 | |
| R0722 | ERJ3GEYJ101 | M. RESISTOR CH 1/16W 100 | 1 | |
| R0728 | ERJ3GEYG471 | M. RESISTOR CH 1/16W 470 | 1 | |
| R0729 | ERJ3GEYG102 | M. RESISTOR CH 1/16W 1K | 1 | |
| R0732 | ERJ3GEYG471 | M. RESISTOR CH 1/16W 470 | 1 | |
| R0783 | ERJ3GEYJ393 | M. RESISTOR CH 1/16W 39K | 1 | |
| R852 | ERJ6GMYG821 | M. RESISTOR CH 1/10W 820 | 1 | |
| R853 | ERJ6GMYG203 | M. RESISTOR CH 1/10W 20K | 1 | |
| R1001 | ERJ6GMYG333 | M. RESISTOR CH 1/10W 33K | 1 | |
| R1002 | ERDS2TJ102 | C. RESISTOR 1/4W 1K | 1 | |
| R1003 | ERJ6GMYG272 | M. RESISTOR CH 1/10W 2.7K | 1 | |
| R1004 | ERJ6GMYJ363 | M. RESISTOR CH 1/10W 36K | 1 | |
| R1005 | ERJ6GMYG272 | M. RESISTOR CH 1/10W 2.7K | 1 | |
| R1006 | ERDS2TJ122 | C. RESISTOR 1/4W 1.2K | 1 | |
| R1007 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R1008 | ERJ6GMYG333 | M. RESISTOR CH 1/10W 33K | 1 | |
| R1009, 10 | ERJ6GMYG562 | M. RESISTOR CH 1/10W 5.6K | 2 | |
| R1011 | ERDS1TJ272 | C. RESISTOR 1/2W 2.7K | 1 | |
| R2001 | ERJ6GMYG913 | M. RESISTOR CH 1/10W 91K | 1 | |
| R2002-04 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 3 | |
| R2005 | ERX1SJ1R8 | M. RESISTOR 1W 1.8 | 1 | |
| R2006 | ERJ6GMYG512 | M. RESISTOR CH 1/10W 5.1K | 1 | |
| R2007 | ERJ6GMYG222 | M. RESISTOR CH 1/10W 2.2K | 1 | |
| R2009, 10 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 2 | |
| R2011 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R2012 | ERJ6GMYJ221 | M. RESISTOR CH 1/10W 220 | 1 | |
| R2013 | ERJ6GMYG272 | M. RESISTOR CH 1/10W 2.7K | 1 | |
| R2014, 15 | ERJ6GMYJ223 | M. RESISTOR CH 1/10W 22K | 2 | |
| R2016 | ERJ6GMYG222 | M. RESISTOR CH 1/10W 2.2K | 1 | |
| R2017, 18 | ERJ6GMYJ223 | M. RESISTOR CH 1/10W 22K | 2 | |
| R2019 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R2020 | ERJ6GMYG471 | M. RESISTOR CH 1/10W 470 | 1 | |
| R2021 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R2022 | ERJ6GMYG222 | M. RESISTOR CH 1/10W 2.2K | 1 | |
| R2023 | ERQS2CKG8200 | M. RESISTOR 1/4W 820 | 1 | |
| R2024 | ERQS2CKG6800 | M. RESISTOR 1/4W 680 | 1 | |
| R2025 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R2026, 27 | ERDS2TJ560 | C. RESISTOR 1/4W 56 | 2 | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| R2028 | ERDS1TJ561 | C.RESISTOR 1/2W 560 | 1 | |
| R2029 | ERJ6GMYG222 | M.RESISTOR CH 1/10W 2.2K | 1 | |
| R2030 | ERJ6GMYG432 | M.RESISTOR CH 1/10W 4.3K | 1 | |
| R2031 | ERJ6GMYG473 | M.RESISTOR CH 1/10W 47K | 1 | |
| R2032 | ERJ6GMYG103 | M.RESISTOR CH 1/10W 10K | 1 | |
| R2033 | ERJ6GMYJ684 | M.RESISTOR CH 1/10W 680K | 1 | |
| R2034 | ERJ6GMYG133 | M.RESISTOR CH 1/10W 13K | 1 | |
| R2035 | ERJ6GMYJ105 | M.RESISTOR CH 1/10W 1M | 1 | |
| R2036, 37 | ERJ6GMYG472 | M.RESISTOR CH 1/10W 4.7K | 2 | |
| R2038 | ERJ6GMYG102 | M.RESISTOR CH 1/10W 1K | 1 | |
| R2039, 40 | ERJ6GMYJ105 | M.RESISTOR CH 1/10W 1M | 2 | |
| R2041, 42 | ERJ6GMYG392 | M.RESISTOR CH 1/10W 3.9K | 2 | |
| R2043 | ERDS2TJ560 | C.RESISTOR 1/4W 56 | 1 | |
| R2044 | ERX12SJR47 | M.RESISTOR 1/2W 0.47 | 1 | |
| R2050 | ERJ6GMYG332 | M.RESISTOR CH 1/10W 3.3K | 1 | |
| R2051 | ERJ6GMZOR00 | M.RESISTOR CH 1/10W 0 | 1 | |
| R3001 | ERJ6GMYG561 | M.RESISTOR CH 1/10W 560 | 1 | |
| R3002 | ERJ6GMYG472 | M.RESISTOR CH 1/10W 4.7K | 1 | |
| R3003 | ERJ6GMYG222 | M.RESISTOR CH 1/10W 2.2K | 1 | |
| R3004 | ERJ6GMYG272 | M.RESISTOR CH 1/10W 2.7K | 1 | |
| R3005 | ERJ6GMYG332 | M.RESISTOR CH 1/10W 3.3K | 1 | |
| R3006 | ERDS2TJ472 | C.RESISTOR 1/4W 4.7K | 1 | |
| R3007 | ERJ6GMYG681 | M.RESISTOR CH 1/10W 680 | 1 | |
| R3008 | ERJ6GMYG222 | M.RESISTOR CH 1/10W 2.2K | 1 | |
| R3009 | ERJ6GMYG392 | M.RESISTOR CH 1/10W 3.9K | 1 | |
| R3012 | ERDS2T0 | C.RESISTOR 1/4W 0 | 1 | |
| R3013 | ERJ6GMYG103 | M.RESISTOR CH 1/10W 10K | 1 | |
| R3014 | ERDS2TJ102 | C.RESISTOR 1/4W 1K | 1 | |
| R3015 | ERJ6GMYG222 | M.RESISTOR CH 1/10W 2.2K | 1 | |
| R3018 | ERJ6GMYJ223 | M.RESISTOR CH 1/10W 22K | 1 | |
| R3019, 20 | ERJ6GMYG561 | M.RESISTOR CH 1/10W 560 | 2 | |
| R3021 | ERJ6GMYJ391 | M.RESISTOR CH 1/10W 390 | 1 | |
| R3022 | ERJ6GMYG102 | M.RESISTOR CH 1/10W 1K | 1 | |
| R3023, 24 | ERJ6GMYG821 | M.RESISTOR CH 1/10W 820 | 2 | |
| R3025 | ERJ6GMYG152 | M.RESISTOR CH 1/10W 1.5K | 1 | |
| R3026 | ERJ6GMYG102 | M.RESISTOR CH 1/10W 1K | 1 | |
| R3029 | ERJ6GMYG222 | M.RESISTOR CH 1/10W 2.2K | 1 | |
| R3030 | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K | 1 | |
| R3031 | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K | 1 | |
| R3032 | ERJ6GMYG334 | M.RESISTOR CH 1/10W 330K | 1 | |
| R3033 | ERJ6GMYJ223 | M.RESISTOR CH 1/10W 22K | 1 | |
| R3034 | ERJ6GMYG103 | M.RESISTOR CH 1/10W 10K | 1 | |
| R3037 | ERDS2TJ102 | C.RESISTOR 1/4W 1K | 1 | |
| R3039 | ERJ6GMYG102 | M.RESISTOR CH 1/10W 1K | 1 | |
| R3049 | ERJ6GMYG821 | M.RESISTOR CH 1/10W 820 | 1 | |
| R3050 | ERJ6GMYG123 | M.RESISTOR CH 1/10W 12K | 1 | |
| R3051 | ERJ6GMYG512 | M.RESISTOR CH 1/10W 5.1K | 1 | |
| R3052 | ERJ6GMYG272 | M.RESISTOR CH 1/10W 2.7K | 1 | |
| R3053 | ERJ6GMYG302 | M.RESISTOR CH 1/10W 3K | 1 | |
| R3054 | ERJ6GMYG102 | M.RESISTOR CH 1/10W 1K | 1 | |
| R3064, 65 | ERJ6GMYG103 | M.RESISTOR CH 1/10W 10K | 2 | |
| R3076, 77 | ERJ6GMYG103 | M.RESISTOR CH 1/10W 10K | 2 | |
| R3078 | ERDS2T0 | C.RESISTOR 1/4W 0 | 1 | |
| R3079, 80 | ERJ6GMYG102 | M.RESISTOR CH 1/10W 1K | 2 | |
| R4003 | ERJ6GMYG100 | M.RESISTOR CH 1/10W 10 | 1 | |
| R4004, 05 | ERJ6GMYG472 | M.RESISTOR CH 1/10W 4.7K | 2 | |
| R4006 | ERJ6GMYG333 | M.RESISTOR CH 1/10W 33K | 1 | |
| R4007 | ERJ6GMYG153 | M.RESISTOR CH 1/10W 15K | 1 | |
| R4008, 09 | ERJ6GMYG103 | M.RESISTOR CH 1/10W 10K | 2 | |
| R4010 | ERJ6GMYG273 | M.RESISTOR CH 1/10W 27K | 1 | |
| R4011 | ERJ6GMYG103 | M.RESISTOR CH 1/10W 10K | 1 | |
| R4012 | ERJ6GMYG123 | M.RESISTOR CH 1/10W 12K | 1 | |
| R4013 | ERJ6GMYJ163 | M.RESISTOR CH 1/10W 16K | 1 | |
| R4014 | ERJ6GMYG562 | M.RESISTOR CH 1/10W 5.6K | 1 | |
| R4015 | ERJ6GMYG333 | M.RESISTOR CH 1/10W 33K | 1 | |
| R4016 | ERJ6GMYJ223 | M.RESISTOR CH 1/10W 22K | 1 | |
| R4017 | ERJ6GMYG133 | M.RESISTOR CH 1/10W 1.3K | 1 | |
| R4019 | ERJ6GMYJ105 | M.RESISTOR CH 1/10W 1M | 1 | |
| R4020 | ERJ6GMYG123 | M.RESISTOR CH 1/10W 12K | 1 | |
| R4021 | ERJ6GMYG473 | M.RESISTOR CH 1/10W 47K | 1 | |
| R4022 | ERJ6GMYG331 | M.RESISTOR CH 1/10W 330 | 1 | |
| R4023 | ERJ6GMYG394 | M.RESISTOR CH 1/10W 390K | 1 | |
| R4024 | ERDS2TJ221 | C.RESISTOR 1/4W 220 | 1 | |
| R4025 | ERJ6GMYG682 | M.RESISTOR CH 1/10W 6.8K | 1 | |
| R4026 | ERJ6GMYG473 | M.RESISTOR CH 1/10W 47K | 1 | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| R4027 | ERJ6GMYG103 | M.RESISTOR CH 1/10W 10K | 1 | |
| R4028 | ERJ6GMYG622 | M.RESISTOR CH 1/10W 6.2K | 1 | |
| R4029 | ERJ6GMYG133 | M.RESISTOR CH 1/10W 13K | 1 | |
| R4030 | ERJ6GMYG562 | M.RESISTOR CH 1/10W 5.6K | 1 | |
| R4031 | ERJ6GMYG222 | M.RESISTOR CH 1/10W 2.2K | 1 | |
| R4032 | ERJ6GMYG471 | M.RESISTOR CH 1/10W 470 | 1 | |
| R4033 | ERJ6GMYG331 | M.RESISTOR CH 1/10W 330 | 1 | |
| R4034 | ERJ6GMYG203 | M.RESISTOR CH 1/10W 20K | 1 | |
| R4035, 36 | ERJ6GMYJ223 | M.RESISTOR CH 1/10W 22K | 2 | |
| R4037 | ERJ6GMYG103 | M.RESISTOR CH 1/10W 10K | 1 | |
| R4038 | ERJ6GMYG332 | M.RESISTOR CH 1/10W 3.3K | 1 | |
| R4039 | ERJ6GMYG102 | M.RESISTOR CH 1/10W 1K | 1 | |
| R4041, 42 | ERJ6GMYG393 | M.RESISTOR CH 1/10W 39K | 2 | |
| R4043 | ERG2SJ821 | M.RESISTOR 2W 820 | 1 | |
| R4044 | ERDS1TJ222 | C.RESISTOR 1/2W 2.2K | 1 | |
| R4047 | ERJ6GMYG104 | M.RESISTOR CH 1/10W 100K | 1 | |
| R4048 | ERJ6GMYG473 | M.RESISTOR CH 1/10W 47K | 1 | |
| R4049 | ERJ6GMYG682 | M.RESISTOR CH 1/10W 6.8K | 1 | |
| R4050 | ERJ6GMYJ221 | M.RESISTOR CH 1/10W 220 | 1 | |
| R4051 | ERJ6GMYG682 | M.RESISTOR CH 1/10W 6.8K | 1 | |
| R4054 | ERJ6GMZOR00 | M.RESISTOR CH 1/10W 0 | 1 | |
| R4055 | ERJ6GMYG153 | M.RESISTOR CH 1/10W 15K | 1 | |
| R4056 | ERJ6GMYG393 | M.RESISTOR CH 1/10W 39K | 1 | |
| R4057 | ERJ6GMYG272 | M.RESISTOR CH 1/10W 2.7K | 1 | |
| R4058 | ERJ6GMYG472 | M.RESISTOR CH 1/10W 4.7K | 1 | |
| R4059 | ERJ6GMYG332 | M.RESISTOR CH 1/10W 3.3K | 1 | |
| R4062, 63 | ERJ6GMYG243 | M.RESISTOR CH 1/10W 24K | 2 | |
| R4064 | ERJ6GMYJ221 | M.RESISTOR CH 1/10W 220 | 1 | |
| R4065 | ERJ6GMZOR00 | M.RESISTOR CH 1/10W 0 | 1 | |
| R4066 | ERJ6GMYG361 | M.RESISTOR CH 1/10W 360 | 1 | |
| R4067, 68 | ERJ6GMYG103 | M.RESISTOR CH 1/10W 10K | 2 | |
| R4069, 70 | ERJ6GMYJ683 | M.RESISTOR CH 1/10W 68K | 2 | |
| R4071 | ERJ6GMZOR00 | M.RESISTOR CH 1/10W 0 | 1 | |
| R4073 | ERJ6GMYG103 | M.RESISTOR CH 1/10W 10K | 1 | |
| R4503 | ERJ3RBD203 | M.RESISTOR CH 1/16W 20K | 1 | [SUPPLIED FROM MBV] |
| R4504 | ERJ3GEYG224 | M.RESISTOR CH 1/16W 220K | 1 | |
| R4508 | ERJ3GEYG224 | M.RESISTOR CH 1/16W 220K | 1 | |
| R4512 | ERJ3RBD123 | M.RESISTOR CH 1/16W 12K | 1 | |
| R4513 | ERJ3GEYJ103 | M.RESISTOR CH 1/16W 10K | 1 | |
| R4517, 18 | ERJ3GEYJ221 | M.RESISTOR CH 1/16W 220 | 2 | |
| R4519, 20 | ERJ3GEYJ103 | M.RESISTOR CH 1/16W 10K | 2 | |
| R4522 | ERJ3GEYK225 | M.RESISTOR CH 1/16W 2.2M | 1 | |
| R4528 | ERJ3RBD153 | M.RESISTOR CH 1/16W 15K | 1 | |
| R4529 | ERJ3GEYG562 | M.RESISTOR CH 1/16W 5.6K | 1 | |
| R4530 | ERJ3GEYJ334 | M.RESISTOR CH 1/16W 330K | 1 | |
| R4534 | ERJ3GEYJ103 | M.RESISTOR CH 1/16W 10K | 1 | |
| R4542 | ERJ3GEYJ222 | M.RESISTOR CH 1/16W 2.2K | 1 | |
| R4562 | ERJ3RBD912 | M.RESISTOR CH 1/16W 9.1K | 1 | [SUPPLIED FROM MBV] |
| R4563 | ERJ3GEYJ272 | M.RESISTOR CH 1/16W 2.7K | 1 | |
| R4584 | ERJ3GEYJ103 | M.RESISTOR CH 1/16W 10K | 1 | |
| R4585 | ERJ3GEYOR00 | M.RESISTOR CH 1/16W 0 | 1 | |
| R4586 | ERJ3GEYJ103 | M.RESISTOR CH 1/16W 10K | 1 | |
| R4598 | ERJ6RED124 | M.RESISTOR CH 1/10W 120K | 1 | [SUPPLIED FROM MBV] |
| R4599 | ERJ6RED114 | M.RESISTOR CH 1/10W 110K | 1 | [SUPPLIED FROM MBV] |
| R4601 | ERJ3GEYJ473 | M.RESISTOR CH 1/16W 47K | 1 | |
| R4603-05 | ERJ3GEYJ473 | M.RESISTOR CH 1/16W 47K | 3 | |
| R4606 | ERJ6GEYF473 | M.RESISTOR CH 1/10W 47K | 1 | |
| R4607 | ERJ3GEYJ473 | M.RESISTOR CH 1/16W 47K | 1 | |
| R4608 | ERDS2TJ103 | C.RESISTOR 1/4W 10K | 1 | |
| R4621 | ERJ6GEYG163 | M.RESISTOR CH 1/10W 16K | 1 | |
| R4623 | ERJ3GEYJ221 | M.RESISTOR CH 1/16W 220 | 1 | |
| R4624 | ERJ3GEYJ103 | M.RESISTOR CH 1/16W 10K | 1 | |
| R4695, 96 | ERJ3GEYJ473 | M.RESISTOR CH 1/16W 47K | 2 | |
| R4697 | ERJ6GEYG562 | M.RESISTOR CH 1/10W 5.6K | 1 | |
| R5003 | ERJ6GMYG102 | M.RESISTOR CH 1/10W 1K | 1 | |
| R5004 | ERJ6GMYG271 | M.RESISTOR CH 1/10W 270 | 1 | |
| R5005 | ERJ6GMYG472 | M.RESISTOR CH 1/10W 4.7K | 1 | |
| R5006 | ERJ6GMYJ124 | M.RESISTOR CH 1/10W 120K | 1 | |
| R5007 | ERJ6GMYJ223 | M.RESISTOR CH 1/10W 22K | 1 | |
| R5012 | ERJ6GMYG563 | M.RESISTOR CH 1/10W 56K | 1 | |
| R5013 | ERJ6GMYG123 | M.RESISTOR CH 1/10W 12K | 1 | |
| R5014 | ERJ6GMYG223 | M.RESISTOR CH 1/10W 22K | 1 | |
| R5016, 17 | ERJ6GMYG102 | M.RESISTOR CH 1/10W 1K | 2 | |
| R5018 | ERJ6GMYG123 | M.RESISTOR CH 1/10W 12K | 1 | |
| R5019 | ERJ6GMYG682 | M.RESISTOR CH 1/10W 6.8K | 1 | |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| R5020 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R5021, 22 | ERJ6GMYG681 | M. RESISTOR CH 1/10W 680 | 2 | |
| R5023 | ERJ6GMYG271 | M. RESISTOR CH 1/10W 270 | 1 | |
| R5025 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R5027 | ERJ6GMYG122 | M. RESISTOR CH 1/10W 1.2K | 1 | |
| R5028, 29 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 2 | |
| R5030 | ERJ6GMYG471 | M. RESISTOR CH 1/10W 470 | 1 | |
| R5031 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R5701-04 | ERJ6GEYG102 | M. RESISTOR CH 1/10W 1K | 4 | |
| R5705 | ERJ6GEYG152 | M. RESISTOR CH 1/10W 1.5K | 1 | |
| R5706, 07 | ERJ6GEYG102 | M. RESISTOR CH 1/10W 1K | 2 | |
| R5708 | ERJ6GEYF333 | M. RESISTOR CH 1/10W 33K | 1 | |
| R5801 | ERJ6GEYG222 | M. RESISTOR CH 1/10W 2.2K | 1 | |
| R5802 | ERJ6GEYG681 | M. RESISTOR CH 1/10W 680 | 1 | |
| R5803 | ERJ6GEYG182 | M. RESISTOR CH 1/10W 1.8K | 1 | |
| R5808 | ERJ6GEY0R00 | M. RESISTOR CH 1/10W 0 | 1 | |
| R5810 | ERJ6GEYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R5811 | ERJ6GEYG273 | M. RESISTOR CH 1/10W 27K | 1 | |
| R5812 | ERJ6GEYG563 | M. RESISTOR CH 1/10W 56K | 1 | |
| R5813 | ERJ6GEYF561 | M. RESISTOR CH 1/10W 560 | 1 | |
| R5814 | ERJ6GEYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R5815 | ERJ6GEYG681 | M. RESISTOR CH 1/10W 680 | 1 | |
| R5816 | ERJ6GEYG181 | M. RESISTOR CH 1/10W 180 | 1 | |
| R5817 | ERJ6GEYG101 | M. RESISTOR CH 1/10W 100 | 1 | |
| R5818 | ERJ6GEYG242 | M. RESISTOR CH 1/10W 2.4K | 1 | |
| R6001 | ERJ6GMYJ201 | M. RESISTOR CH 1/10W 200 | 1 | |
| R6002 | ERJ6GMYG272 | M. RESISTOR CH 1/10W 2.7K | 1 | |
| R6003-05 | ERJ6GMYG333 | M. RESISTOR CH 1/10W 33K | 3 | |
| R6006, 07 | ERJ6GMYG223 | M. RESISTOR CH 1/10W 22K | 2 | |
| R6008 | ERJ6GMYG272 | M. RESISTOR CH 1/10W 2.7K | 1 | |
| R6009 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R6010 | ERJ6GMYG272 | M. RESISTOR CH 1/10W 2.7K | 1 | |
| R6011 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R6012, 13 | ERJ6GMYG101 | M. RESISTOR CH 1/10W 100 | 2 | |
| R6015 | ERJ6GMYG104 | M. RESISTOR CH 1/10W 100K | 1 | |
| R6016 | ERJ6GMYJ683 | M. RESISTOR CH 1/10W 68K | 1 | |
| R6017 | ERDS2TJ103 | C. RESISTOR 1/4W 10K | 1 | |
| R6018 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R6019 | ERDS2TJ473 | C. RESISTOR 1/4W 47K | 1 | |
| R6020 | ERJ6GMYG104 | M. RESISTOR CH 1/10W 100K | 1 | |
| R6021-23 | ERJ6GMYG101 | M. RESISTOR CH 1/10W 100 | 3 | |
| R6024 | ERJ6GMYG222 | M. RESISTOR CH 1/10W 2.2K | 1 | |
| R6025 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R6026 | ERJ6GMYG473 | M. RESISTOR CH 1/10W 47K | 1 | |
| R6027 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R6028 | ERJ6GMYG392 | M. RESISTOR CH 1/10W 3.9K | 1 | |
| R6029, 30 | ERJ6GMYG272 | M. RESISTOR CH 1/10W 2.7K | 2 | |
| R6031, 32 | ERJ6GMYJ221 | M. RESISTOR CH 1/10W 220 | 2 | |
| R6033 | ERJ6GMYG272 | M. RESISTOR CH 1/10W 2.7K | 1 | |
| R6034 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R6035, 36 | ERJ6GMYJ221 | M. RESISTOR CH 1/10W 220 | 2 | |
| R6037, 38 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 2 | |
| R6039 | ERDS2TJ271 | C. RESISTOR 1/4W 270 | 1 | |
| R6040, 41 | ERJ6GMYJ683 | M. RESISTOR CH 1/10W 68K | 2 | |
| R6043 | ERJ6GMYG392 | M. RESISTOR CH 1/10W 3.9K | 1 | |
| R6044 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R6046-48 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 3 | |
| R6049 | ERDS2TJ102 | C. RESISTOR 1/4W 1K | 1 | |
| R6050 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R6052 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R6054 | ERJ6GMYG472 | M. RESISTOR CH 1/10W 4.7K | 1 | |
| R6055 | ERJ6GMYG183 | M. RESISTOR CH 1/10W 18K | 1 | |
| R6056-58 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 3 | |
| R6059 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R6060 | ERJ6GMYG822 | M. RESISTOR CH 1/10W 8.2K | 1 | |
| R6061 | ERJ6GMYG243 | M. RESISTOR CH 1/10W 24K | 1 | |
| R6062 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R6064 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R6065 | ERJ6GMYG334 | M. RESISTOR CH 1/10W 330K | 1 | |
| R7301 | ERJ6GEYG182 | M. RESISTOR CH 1/10W 1.8K | 1 | |
| R7302 | ERJ3GEYG472 | M. RESISTOR CH 1/16W 4.7K | 1 | |
| R7303 | ERJ3GEYG152 | M. RESISTOR CH 1/16W 1.5K | 1 | |
| R7308 | ERJ3GEYJ121 | M. RESISTOR CH 1/16W 120 | 1 | |
| R7309, 10 | ERJ6GEYF561 | M. RESISTOR CH 1/10W 560 | 2 | |
| R7311 | ERJ6GEYG221 | M. RESISTOR CH 1/10W 220 | 1 | |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| R7312 | ERJ6GEYG152 | M. RESISTOR CH 1/10W 1.5K | 1 | |
| R7313, 14 | ERJ3GEYG272 | M. RESISTOR CH 1/16W 2.7K | 2 | |
| R7315 | ERJ3GEYJ114 | M. RESISTOR CH 1/16W 110K | 1 | |
| R7316 | ERJ3GEYJ223 | M. RESISTOR CH 1/16W 22K | 1 | |
| R7317 | ERJ3GEYJ473 | M. RESISTOR CH 1/16W 47K | 1 | |
| R7320 | ERJ3GEYJ104 | M. RESISTOR CH 1/16W 100K | 1 | |
| R7321-23 | ERJ3GEYJ333 | M. RESISTOR CH 1/16W 33K | 3 | |
| R7324 | ERJ3GEYJ103 | M. RESISTOR CH 1/16W 10K | 1 | |
| R7325 | ERJ3GEYG102 | M. RESISTOR CH 1/16W 1K | 1 | |
| R7326 | ERJ3GEYJ104 | M. RESISTOR CH 1/16W 100K | 1 | |
| R7327-29 | ERJ3GEYJ333 | M. RESISTOR CH 1/16W 33K | 3 | |
| R7330 | ERJ3GEY0R00 | M. RESISTOR CH 1/16W 0 | 1 | |
| R7332 | ERJ3GEYG102 | M. RESISTOR CH 1/16W 1K | 1 | |
| R7333 | ERJ3GEYJ104 | M. RESISTOR CH 1/16W 100K | 1 | |
| R7334-36 | ERJ3GEYJ333 | M. RESISTOR CH 1/16W 33K | 3 | |
| R7337 | ERJ3GEY0R00 | M. RESISTOR CH 1/16W 0 | 1 | |
| R7339 | ERJ3GEYG102 | M. RESISTOR CH 1/16W 1K | 1 | |
| R7341-43 | ERJ6GEYJ471 | M. RESISTOR CH 1/10W 470 | 3 | |
| R7344 | ERJ3GEYG102 | M. RESISTOR CH 1/16W 1K | 1 | |
| R7345, 46 | ERJ3GEYJ473 | M. RESISTOR CH 1/16W 47K | 2 | |
| R7350 | ERJ3GEYG102 | M. RESISTOR CH 1/16W 1K | 1 | |
| R7351 | ERJ3GEYJ473 | M. RESISTOR CH 1/16W 47K | 1 | |
| R7352-56 | ERJ3GEYJ103 | M. RESISTOR CH 1/16W 10K | 5 | |
| R7357 | ERJ3GEYG472 | M. RESISTOR CH 1/16W 4.7K | 1 | |
| R7362 | ERJ3GEYG682 | M. RESISTOR CH 1/16W 6.8K | 1 | |
| R7366 | ERJ3GEYG102 | M. RESISTOR CH 1/16W 1K | 1 | |
| R7367 | ERJ3GEYJ103 | M. RESISTOR CH 1/16W 10K | 1 | |
| R7368 | ERJ3GEYG102 | M. RESISTOR CH 1/16W 1K | 1 | |
| R7370 | ERJ3GEYJ103 | M. RESISTOR CH 1/16W 10K | 1 | |
| R7376, 77 | ERJ3GEYJ104 | M. RESISTOR CH 1/16W 100K | 2 | |
| R7378 | ERJ3GEYG152 | M. RESISTOR CH 1/16W 1.5K | 1 | |
| R7379 | ERJ3GEY0R00 | M. RESISTOR CH 1/16W 0 | 1 | |
| R7381 | ERJ3GEY0R00 | M. RESISTOR CH 1/16W 0 | 1 | |
| R7383 | ERJ3GEY0R00 | M. RESISTOR CH 1/16W 0 | 1 | |
| R7601 | ERJ6GMYG151 | M. RESISTOR CH 1/10W 150 | 1 | |
| R7602, 03 | ERJ6GMYJ683 | M. RESISTOR CH 1/10W 68K | 2 | |
| R7604 | ERJ6GMYG151 | M. RESISTOR CH 1/10W 150 | 1 | |
| R7605-07 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 3 | |
| R7609 | ERDS2TJ330 | C. RESISTOR 1/4W 33 | 1 | |
| R7612 | ERG2SJ331 | M. RESISTOR 2W 330 | 1 | |
| R7614 | ERJ6GMYG561 | M. RESISTOR CH 1/10W 560 | 1 | |
| R7615 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R7616 | ERG2SJ331 | M. RESISTOR 2W 330 | 1 | |
| R7618 | ERJ6GMYG472 | M. RESISTOR CH 1/10W 4.7K | 1 | |
| R7619 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R7702 | ERJ6GMYG182 | M. RESISTOR CH 1/10W 1.8K | 1 | |
| R7703, 04 | ERJ6GMYG101 | M. RESISTOR CH 1/10W 100 | 2 | |
| R7705 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R7707 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R7708 | ERJ6GMYG272 | M. RESISTOR CH 1/10W 2.7K | 1 | |
| R7709 | ERJ6GMZ0R00 | M. RESISTOR CH 1/10W 0 | 1 | |
| R7711 | ERJ6GMYG272 | M. RESISTOR CH 1/10W 2.7K | 1 | |
| R7712, 13 | ERJ6GMZ0R00 | M. RESISTOR CH 1/10W 0 | 2 | |
| R7714-19 | ERJ6GMYG101 | M. RESISTOR CH 1/10W 100 | 6 | |
| R7720, 21 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 2 | |
| R7723 | ERJ6GMYG152 | M. RESISTOR CH 1/10W 1.5K | 1 | |
| R7725 | ERJ6GMYG332 | M. RESISTOR CH 1/10W 3.3K | 1 | |
| R7729 | ERJ6GMYG472 | M. RESISTOR CH 1/10W 4.7K | 1 | |
| R7730 | ERJ6GMYG101 | M. RESISTOR CH 1/10W 100 | 1 | |
| R7731 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R7732 | ERJ6GMYG472 | M. RESISTOR CH 1/10W 4.7K | 1 | |
| R7733 | ERJ6GMYG104 | M. RESISTOR CH 1/10W 100K | 1 | |
| R7734 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R7735 | ERJ6GMYG104 | M. RESISTOR CH 1/10W 100K | 1 | |
| R7736 | ERJ6GMYG152 | M. RESISTOR CH 1/10W 1.5K | 1 | |
| R7737, 38 | ERJ6GMYJ221 | M. RESISTOR CH 1/10W 220 | 2 | |
| R7739 | ERJ6GMYJ112 | M. RESISTOR CH 1/10W 1.1K | 1 | |
| R7740 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R7741 | ERJ6GMYG472 | M. RESISTOR CH 1/10W 4.7K | 1 | |
| R7742 | ERJ6GMYG682 | M. RESISTOR CH 1/10W 6.8K | 1 | |
| R7743 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R7745 | ERJ6GMYG224 | M. RESISTOR CH 1/10W 220K | 1 | |
| R7747 | ERJ6GMYG472 | M. RESISTOR CH 1/10W 4.7K | 1 | |
| R7748 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R7750 | ERJ6GMYG561 | M. RESISTOR CH 1/10W 560 | 1 | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| R7751 | ERJ6GMYG392 | M.RESISTOR CH 1/10W 3.9K | 1 | |
| R7753 | ERJ6GMYG102 | M.RESISTOR CH 1/10W 1K | 1 | |
| R7754 | ERJ6GMYG122 | M.RESISTOR CH 1/10W 1.2K | 1 | |
| R7758 | ERJ6GMYG273 | M.RESISTOR CH 1/10W 27K | 1 | |
| R7761 | ERJ6GMYG272 | M.RESISTOR CH 1/10W 2.7K | 1 | |
| R7764 | ERJ6GMYG102 | M.RESISTOR CH 1/10W 1K | 1 | |
| | | | | |
| RX7701 | EXBF9E103J | RESISTOR-RESISTOR | 1 | |
| | | | | |
| S6001 | VESO709 | SWITCH | 1 | |
| | | | | |
| T0703 | EQV5EC071A | TRANSFORMER | 1 | |
| T0704 | EQV5EC072A | TRANSFORMER | 1 | |
| T4001 | EIQ7QF012Q | TRANSFORMER | 1 | |
| T4002 | EIQ7QF013Q | TRANSFORMER | 1 | |
| | | | | |
| ⚠TU7601 | ENG47211GR | TUNER | 1 | [SUPPLIED FROM MBV] |
| | | | | |
| VR0701 | EVNCBAA00B24 | V.RESISTOR 20K | 1 | |
| VR803 | EVMEASA00B14 | V.RESISTOR 10K | 1 | |
| VR2001 | EVNCYAA03B54 | V.RESISTOR 50K | 1 | |
| VR3001,02 | EVNCYAA03B23 | V.RESISTOR 2K | 2 | |
| VR3012,13 | EVNCYAA03B52 | V.RESISTOR 500 | 2 | |
| VR3014 | EVNCYAA03B54 | V.RESISTOR 50K | 1 | |
| VR4001 | EVNCYAA03B15 | V.RESISTOR 100K | 1 | |
| VR4501 | EVMECSA00BS3 | V.RESISTOR 6.8K | 1 | |
| VR4509 | EVMECSA00B53 | V.RESISTOR 5K | 1 | |
| VR4550 | EVMECSA00B14 | V.RESISTOR 10K | 1 | |
| | | | | |
| X301 | VSX0162 | CRYSTAL OSCILLATOR | 1 | |
| X0701 | VLF1180 | FILTER | 1 | |
| X0703 | EFCS6M65MW3B | CRYSTAL OSCILLATOR | 1 | |
| X0704 | VLF1313 | FILTER | 1 | |
| X6001 | VSX0583 | CRYSTAL OSCILLATOR | 1 | |
| X7302 | VSX0683 | CRYSTAL OSCILLATOR | 1 | |
| X7303 | EFOGC4004T4 | CRYSTAL OSCILLATOR | 1 | |
| X7702 | VSX0353 | CRYSTAL OSCILLATOR | 1 | |
| | | | | |
| | | MISCELLANEOUS | | |
| | VMP4894 | SUPPORT ANGLE | 2 | |
| | VMD2329 | PHOTO TRANSISTOR HOLDER | 2 | |
| | VMD2328 | REEL GUIDE | 1 | |
| | VMD2330 | LED HOLDER | 1 | |
| | VSC3553 | SHIELD COVER (MAIN) | 1 | FOR NICAM DECODER C.B.A. |
| | VSC3555 | SHIELD COVER (BOTTOM) | 1 | FOR NICAM DECODER C.B.A. |
| | VMT0784 | SPACER | 1 | FOR NICAM DECODER C.B.A. |
| | VMP4471 | TV DEMODULATOR ANGLE | 1 | FOR TV DEMODULATOR C.B.A. |
| | | | | |
| | | | | |
| ■ | VEP06B36L | MAIN C.B.A. | | [SUPPLIED FROM MBV] |
| | | | | (RTL) |
| | | | | NV-HD660EC |
| C301 | ECUX1H101JCV | C.CAPACITOR CH 50V 100P | 1 | |
| C303 | ECUX1H331JCV | C.CAPACITOR CH 50V 330P | 1 | |
| C305 | ECUX1H102JCV | C.CAPACITOR CH 50V 1000P | 1 | |
| C306 | ECUX1H103ZFV | C.CAPACITOR CH 50V 0.01U | 1 | |
| C307 | ECEA1EKA4R7 | E.CAPACITOR 25V 4.7U | 1 | |
| C308 | ECUX1H102KBV | C.CAPACITOR CH 50V 1000P | 1 | |
| C309 | ECUX1H330JCV | C.CAPACITOR CH 50V 33P | 1 | |
| C310 | ECUX1E223KBV | C.CAPACITOR CH 25V 0.023U | 1 | |
| C311 | ECUM1E104KBN | C.CAPACITOR CH 25V 0.1U | 1 | |
| C312 | ECUX1H680JCV | C.CAPACITOR CH 50V 68P | 1 | |
| C313 | ECUX1H681JCV | C.CAPACITOR CH 50V 680P | 1 | |
| C314 | ECUM1H104ZFN | C.CAPACITOR CH 50V 0.1U | 1 | |
| C315 | ECUX1H103ZFV | C.CAPACITOR CH 50V 0.01U | 1 | |
| C316 | ECEA1HKA010 | E.CAPACITOR 50V 1U | 1 | |
| C317 | ECUX1C104KBV | C.CAPACITOR CH 16V 0.1U | 1 | |
| C318 | ECUX1C104ZFV | C.CAPACITOR CH 16V 0.1U | 1 | |
| C319 | ECUX1H222KBV | C.CAPACITOR CH 50V 2200P | 1 | |
| C320 | ECUX1C333KBV | C.CAPACITOR CH 16V 0.033U | 1 | |
| C321 | ECEA1HKA010 | E.CAPACITOR 50V 1U | 1 | |
| C322 | ECUX1H470JCV | C.CAPACITOR CH 50V 47P | 1 | |
| C323 | ECUX1H390JCV | C.CAPACITOR CH 50V 39P | 1 | |
| C324 | ECEA0JKA101 | E.CAPACITOR 6.3V 100U | 1 | |
| C325 | ECUX1H103ZFV | C.CAPACITOR CH 50V 0.01U | 1 | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| C327 | ECUX1C104ZFV | C.CAPACITOR CH 16V 0.1U | 1 | |
| C328 | ECUM1H104ZFN | C.CAPACITOR CH 50V 0.1U | 1 | |
| C329,30 | ECEA1EKA4R7 | E.CAPACITOR 25V 4.7U | 2 | |
| C331 | ECUM1H103ZFN | C.CAPACITOR CH 50V 0.01U | 1 | |
| C332 | ECEA1CKA100 | E.CAPACITOR 16V 10U | 1 | |
| C333 | ECUX1H080DCV | C.CAPACITOR CH 50V 8P | 1 | |
| C334 | ECUX1H270JCV | C.CAPACITOR CH 50V 27P | 1 | |
| C335 | ECUX1H680JCV | C.CAPACITOR CH 50V 68P | 1 | |
| C336 | ECUX1H180JCV | C.CAPACITOR CH 50V 18P | 1 | |
| C337 | ECEA1CKA100 | E.CAPACITOR 16V 10U | 1 | |
| C338 | ECUX1C104ZFV | C.CAPACITOR CH 16V 0.1U | 1 | |
| C339 | ECUX1H470JCV | C.CAPACITOR CH 50V 47P | 1 | |
| C340 | ECEA1CKA100 | E.CAPACITOR 16V 10U | 1 | |
| C341 | ECUX1E223KBV | C.CAPACITOR CH 25V 0.023U | 1 | |
| C342 | ECEA1EKA4R7 | E.CAPACITOR 25V 4.7U | 1 | |
| C343 | ECEA1EKN4R7 | E.CAPACITOR 25V 4.7U | 1 | |
| C344 | ECUX1C104ZFV | C.CAPACITOR CH 16V 0.1U | 1 | |
| C345,46 | ECUX1H103ZFV | C.CAPACITOR CH 50V 0.01U | 2 | |
| C347 | ECUM1H104ZFN | C.CAPACITOR CH 50V 0.1U | 1 | |
| C348 | ECEA1CKA101 | E.CAPACITOR 16V 100U | 1 | |
| C349 | ECUX1C104ZFV | C.CAPACITOR CH 16V 0.1U | 1 | |
| C350 | ECUX1H152KBV | C.CAPACITOR CH 50V 1500P | 1 | |
| C351 | ECUX1H392KBV | C.CAPACITOR CH 50V 3900P | 1 | |
| C352 | ECEA0JKA470 | E.CAPACITOR 6.3V 47U | 1 | |
| C353 | ECUX1H820JCV | C.CAPACITOR CH 50V 82P | 1 | |
| C354 | ECUX1H470JCV | C.CAPACITOR CH 50V 47P | 1 | |
| C355 | ECUM1H103ZFN | C.CAPACITOR CH 50V 0.01U | 1 | |
| C362,63 | ECUX1H103ZFV | C.CAPACITOR CH 50V 0.01U | 2 | |
| C364 | ERJ6GEY0R00 | M.RESISTOR CH 1/10W 0 | 1 | |
| C365 | ECUX1H103ZFV | C.CAPACITOR CH 50V 0.01U | 1 | |
| C367 | ECUX1H560JCV | C.CAPACITOR CH 50V 56P | 1 | |
| C368,69 | ECUX1H103ZFV | C.CAPACITOR CH 50V 0.01U | 2 | |
| C370 | ECUX1H560JCV | C.CAPACITOR CH 50V 56P | 1 | |
| C371 | ECUX1H103ZFV | C.CAPACITOR CH 50V 0.01U | 1 | |
| C372 | ECUX1H470JCV | C.CAPACITOR CH 50V 47P | 1 | |
| C373,74 | ECUX1H103ZFV | C.CAPACITOR CH 50V 0.01U | 2 | |
| C375 | ECUM1H103ZFN | C.CAPACITOR CH 50V 0.01U | 1 | |
| C376 | ECUX1H331JCV | C.CAPACITOR CH 50V 330P | 1 | |
| C377 | ECUM1H103ZFN | C.CAPACITOR CH 50V 0.01U | 1 | |
| C378 | ECUX1H103ZFV | C.CAPACITOR CH 50V 0.01U | 1 | |
| C379 | ECEA0JKA101 | E.CAPACITOR 6.3V 100U | 1 | |
| C380 | ECUX1H470JCV | C.CAPACITOR CH 50V 47P | 1 | |
| C381 | ECUX1H103ZFV | C.CAPACITOR CH 50V 0.01U | 1 | |
| C382 | ECUX1C104ZFV | C.CAPACITOR CH 16V 0.1U | 1 | |
| C383 | ECQB1H332JF | P.CAPACITOR 50V 3300P | 1 | |
| C0701,02 | ECUX1H103ZFV | C.CAPACITOR CH 50V 0.01U | 2 | |
| C0704 | ECUX1H331JCV | C.CAPACITOR CH 50V 330P | 1 | |
| C0706 | ECEA1HKA0R1 | E.CAPACITOR 50V 0.1U | 1 | |
| C0707,08 | ECUX1H103ZFV | C.CAPACITOR CH 50V 0.01U | 2 | |
| C0709 | ECUX1H120JCV | C.CAPACITOR CH 50V 12P | 1 | |
| C0710 | ECUX1H470JPV | C.CAPACITOR CH 50V 47P | 1 | |
| C0711 | ECEA1CKA100 | E.CAPACITOR 16V 10U | 1 | |
| C0712 | ECUX1H103ZFV | C.CAPACITOR CH 50V 0.01U | 1 | |
| C0714 | ECQB1H473JF | P.CAPACITOR 50V 0.047U | 1 | |
| C0715 | ECUM1H103ZFN | C.CAPACITOR CH 50V 0.01U | 1 | |
| C0716 | ECEA1CKA100 | E.CAPACITOR 16V 10U | 1 | |
| C0717 | ECUX1H270JPV | C.CAPACITOR CH 50V 27P | 1 | |
| C0718 | ECEA1HKSR47 | E.CAPACITOR 50V 0.47U | 1 | |
| C0719 | ECUX1H270JCV | C.CAPACITOR CH 50V 27P | 1 | |
| C0720 | ECUX1H103ZFV | C.CAPACITOR CH 50V 0.01U | 1 | |
| C0723 | ECEA1HKA0R1 | E.CAPACITOR 50V 0.1U | 1 | |
| C0726 | ECUX1H103ZFV | C.CAPACITOR CH 50V 0.01U | 1 | |
| C0730 | ECUX1H103ZFV | C.CAPACITOR CH 50V 0.01U | 1 | |
| C0732 | ECUX1H103ZFV | C.CAPACITOR CH 50V 0.01U | 1 | |
| C851 | ECEA1CKA100 | E.CAPACITOR 16V 10U | 1 | |
| C852,53 | ECUM1H103ZFN | C.CAPACITOR CH 50V 0.01U | 2 | |
| C854 | ECEA1HKA0R1 | E.CAPACITOR 50V 0.1U | 1 | |
| C855,56 | ECUM1H103ZFN | C.CAPACITOR CH 50V 0.01U | 2 | |
| C857 | ECEA1HKA0R1 | E.CAPACITOR 50V 0.1U | 1 | |
| C858 | ECUM1H472KBN | C.CAPACITOR CH 50V 4700P | 1 | |
| C859 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1 | |
| C860,61 | ECEA1HKA010 | E.CAPACITOR 50V 1U | 2 | |
| C862,63 | ECUM1H103ZFN | C.CAPACITOR CH 50V 0.01U | 2 | |
| C864 | ECEA1CKA100 | E.CAPACITOR 16V 10U | 1 | |
| C865 | ECUM1H103ZFN | C.CAPACITOR CH 50V 0.01U | 1 | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| C867 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C1001 | ECA1CM101 | E. CAPACITOR 16V 100U | 1 | |
| C1002 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C1003 | ECA1CM470 | E. CAPACITOR 16V 47U | 1 | |
| C1004 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C1005 | ECEA0JKA220 | E. CAPACITOR 6.3V 22U | 1 | |
| C1006 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C1007 | ECEA0JKA101 | E. CAPACITOR 6.3V 100U | 1 | |
| C1008 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C1009 | ECEA0JKA220 | E. CAPACITOR 6.3V 22U | 1 | |
| C1010 | ECEA0JKA101 | E. CAPACITOR 6.3V 100U | 1 | |
| C1011 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C1012 | ECEA0JKA101 | E. CAPACITOR 6.3V 100U | 1 | |
| C1013 | ECEA0JKA220 | E. CAPACITOR 6.3V 22U | 1 | |
| C2001 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C2002, 03 | ECUM1H102KBN | C. CAPACITOR CH 50V 1000P | 2 | |
| C2004 | ECUM1H223KBN | C. CAPACITOR CH 50V 0.022U | 1 | |
| C2005 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C2006 | ECUM1H392KBN | C. CAPACITOR CH 50V 3900P | 1 | |
| C2007 | ECUM1H472KBN | C. CAPACITOR CH 50V 4700P | 1 | |
| C2008 | ECQV1H683JM | P. CAPACITOR 50V 0.068U | 1 | |
| C2009 | ECEA0JKA221 | E. CAPACITOR 6.3V 220U | 1 | |
| C2010 | ECUM1H471JCN | C. CAPACITOR CH 50V 470P | 1 | |
| C2011 | ECEA0JKA221 | E. CAPACITOR 6.3V 220U | 1 | |
| C2012 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 1 | |
| C2013 | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P | 1 | |
| C2014 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C2015 | ECEA0JKA470 | E. CAPACITOR 6.3V 47U | 1 | |
| C2016, 17 | ECEA1EKN3R3 | E. CAPACITOR 25V 3.3U | 2 | |
| C2018 | ECEA1EKA4R7 | E. CAPACITOR 25V 4.7U | 1 | |
| C2019, 20 | ECUM1H102KBN | C. CAPACITOR CH 50V 1000P | 2 | |
| C2021, 22 | ECUM1C105ZFN | C. CAPACITOR CH 16V 1U | 2 | |
| C2023 | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P | 1 | |
| C2024, 25 | ECEA1HKA2R2 | E. CAPACITOR 50V 2.2U | 2 | |
| C2026 | ECEA1HKNR22 | E. CAPACITOR 50V 0.22U | 1 | |
| C2027 | ECA1EM470 | E. CAPACITOR 25V 47U | 1 | |
| C2028 | ECEA1HKA010 | E. CAPACITOR 50V 1U | 1 | |
| C2029 | ECA1EM470 | E. CAPACITOR 25V 47U | 1 | |
| C2030, 31 | ECUM1E333KBN | C. CAPACITOR CH 25V 0.033U | 2 | |
| C2032 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C2033 | ECA0JM221 | E. CAPACITOR 6.3V 220U | 1 | |
| C2035 | ECUM1E333KBN | C. CAPACITOR CH 25V 0.033U | 1 | |
| C2036 | ECQV1H683JM | P. CAPACITOR 50V 0.068U | 1 | |
| C2037 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C2038-40 | ECUM1E333KBN | C. CAPACITOR CH 25V 0.033U | 3 | |
| C2041, 42 | ECUM1H680JCN | C. CAPACITOR CH 50V 68P | 2 | |
| C2043, 44 | ECUM1C474ZFN | C. CAPACITOR CH 16V 0.47U | 2 | |
| C2045 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C2046 | ECEA1HKA2R2 | E. CAPACITOR 50V 2.2U | 1 | |
| C2053 | ECEA1HKAR47 | E. CAPACITOR 50V 0.47U | 1 | |
| C3001 | ECUM1H620JCN | C. CAPACITOR CH 50V 62P | 1 | |
| C3002 | ECUM1H181JCN | C. CAPACITOR CH 50V 180P | 1 | |
| C3003 | ECUM1H220JCN | C. CAPACITOR CH 50V 22P | 1 | |
| C3004 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C3006 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C3007 | ECEA0JKA221 | E. CAPACITOR 6.3V 220U | 1 | |
| C3008 | ECUM1H102KBN | C. CAPACITOR CH 50V 1000P | 1 | |
| C3009 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C3010 | ECUM1C105ZFN | C. CAPACITOR CH 16V 1U | 1 | |
| C3017, 18 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 2 | |
| C3019 | ECUM1H620JCN | C. CAPACITOR CH 50V 62P | 1 | |
| C3021 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C3023 | ECEA1CKA470 | E. CAPACITOR 16V 47U | 1 | |
| C3024 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C3027 | ECEA0JKA470 | E. CAPACITOR 6.3V 47U | 1 | |
| C3028 | ECUM1H151JCN | C. CAPACITOR CH 50V 150P | 1 | |
| C3029 | ECUM1H220JCN | C. CAPACITOR CH 50V 22P | 1 | |
| C3031 | ECUM1H220JCN | C. CAPACITOR CH 50V 22P | 1 | |
| C3032 | ECUM1H681JCN | C. CAPACITOR CH 50V 680P | 1 | |
| C3033 | ECUM1H330JCN | C. CAPACITOR CH 50V 33P | 1 | |
| C3043 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C3046, 47 | ECUM1H102KBN | C. CAPACITOR CH 50V 1000P | 2 | |
| C3055 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C3057 | ECUM1H180JCN | C. CAPACITOR CH 50V 18P | 1 | |
| C3061 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| C3062 | ECEA0JKA470 | E. CAPACITOR 6.3V 47U | 1 | |
| C3063 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 1 | |
| C3066 | ECKF1H102KB | C. CAPACITOR 50V 1000P | 1 | |
| C4002-04 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 3 | |
| C4005 | ECCD2H181J | C. CAPACITOR 500V 180P | 1 | |
| C4006 | ECEA1CKA330 | E. CAPACITOR 16V 33U | 1 | |
| C4007 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C4009 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 1 | |
| C4010 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C4011 | ECQP1222JZ | P. CAPACITOR 100V 2200P | 1 | |
| C4012 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C4013 | ECUM1H472KBN | C. CAPACITOR CH 50V 4700P | 1 | |
| C4014 | ECQP1203JZ3 | P. CAPACITOR 100V 0.02U | 1 | [SUPPLIED FROM MBV] |
| C4015 | ECUM1H391JCN | C. CAPACITOR CH 50V 390P | 1 | |
| C4016 | ECEA1CKA330 | E. CAPACITOR 16V 33U | 1 | |
| C4017 | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 1 | |
| C4018-20 | ECEA1HKA0R1 | E. CAPACITOR 50V 0.1U | 3 | |
| C4021 | ECUM1H153KBN | C. CAPACITOR CH 50V 0.015U | 1 | |
| C4022 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C4023 | ECUM1C105ZFN | C. CAPACITOR CH 16V 1U | 1 | |
| C4024 | ECUM1H272KBN | C. CAPACITOR CH 50V 2700P | 1 | |
| C4025, 26 | ECEA1CKA220 | E. CAPACITOR 16V 22U | 2 | |
| C4027 | ECEA1HKA3R3 | E. CAPACITOR 50V 3.3U | 1 | |
| C4028 | ECEA1CKA470 | E. CAPACITOR 16V 47U | 1 | |
| C4029 | ECUM1H391JCN | C. CAPACITOR CH 50V 390P | 1 | |
| C4030 | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 1 | |
| C4031 | ECEA1AKA101 | E. CAPACITOR 10V 100U | 1 | |
| C4032 | ECUM1H822KBN | C. CAPACITOR CH 50V 8200P | 1 | |
| C4033, 34 | ECUM1H471JCN | C. CAPACITOR CH 50V 470P | 2 | |
| C4038 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C4039 | ECUM1H220JCN | C. CAPACITOR CH 50V 22P | 1 | |
| C4040 | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 1 | |
| C4041 | ECUM1H151JCN | C. CAPACITOR CH 50V 150P | 1 | |
| C4042 | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P | 1 | |
| C4044 | ECEA1HKA4R7 | E. CAPACITOR 50V 4.7U | 1 | |
| C4501 | ECUX1H681JCV | C. CAPACITOR CH 50V 680P | 1 | |
| C4502 | ECUX1H561JCV | C. CAPACITOR CH 50V 560P | 1 | |
| C4503 | ECUX1H102KBV | C. CAPACITOR CH 50V 1000P | 1 | |
| C4506 | ECEA1CU100 | E. CAPACITOR 16V 10U | 1 | |
| C4507 | ECQB1H223JF | P. CAPACITOR 50V 0.022U | 1 | |
| C4508 | ECEA1EU4R7 | E. CAPACITOR 25V 4.7U | 1 | |
| C4509 | ECEA1AU470 | E. CAPACITOR 10V 47U | 1 | |
| C4510 | ECQB1H103JF | P. CAPACITOR 50V 0.01U | 1 | |
| C4511 | ECQB1H332JF | P. CAPACITOR 50V 3300P | 1 | |
| C4512 | ECUX1H561JCV | C. CAPACITOR CH 50V 560P | 1 | |
| C4513 | ECUM1H681JCN | C. CAPACITOR CH 50V 680P | 1 | |
| C4514 | ECUM1H561JCN | C. CAPACITOR CH 50V 560P | 1 | |
| C4515 | ECEA1EU4R7 | E. CAPACITOR 25V 4.7U | 1 | |
| C4521 | ECUM1H473KBN | C. CAPACITOR CH 50V 0.047U | 1 | |
| C4522 | ECEA1EU4R7 | E. CAPACITOR 25V 4.7U | 1 | |
| C4530 | ECEA0JU470 | E. CAPACITOR 6.3V 47U | 1 | |
| C4533 | ECEA1AU470 | E. CAPACITOR 10V 47U | 1 | |
| C4537 | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 1 | |
| C4538 | ECEA1HUR47 | E. CAPACITOR 50V 0.47U | 1 | |
| C4541 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C4551 | ECQB1H223JF | P. CAPACITOR 50V 0.022U | 1 | |
| C4556 | ECEA1CU100 | E. CAPACITOR 16V 10U | 1 | |
| C4558 | ECEA1EU4R7 | E. CAPACITOR 25V 4.7U | 1 | |
| C4559 | ECEA1AU470 | E. CAPACITOR 10V 47U | 1 | |
| C4560 | ECQB1H103JF | P. CAPACITOR 50V 0.01U | 1 | |
| C4561 | ECQB1H332JF | P. CAPACITOR 50V 3300P | 1 | |
| C4562 | ECUX1H561JCV | C. CAPACITOR CH 50V 560P | 1 | |
| C4565 | ECEA1EU4R7 | E. CAPACITOR 25V 4.7U | 1 | |
| C4568 | ECFF1H104ZF5 | C. CAPACITOR 50V 0.1U | 1 | |
| C4572 | ECEA1EU4R7 | E. CAPACITOR 25V 4.7U | 1 | |
| C4576 | ECUM1H473KBN | C. CAPACITOR CH 50V 0.047U | 1 | |
| C4585, 86 | ECEA0JU101 | E. CAPACITOR 6.3V 100U | 2 | |
| C4587 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C4591 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C4592 | ECUX1H102KBV | C. CAPACITOR CH 50V 1000P | 1 | |
| C4671, 72 | ECEA1CU100 | E. CAPACITOR 16V 10U | 2 | |
| C4674 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C4675 | ECFF1H104ZF5 | C. CAPACITOR 50V 0.1U | 1 | |
| C4676 | ECA1VM470 | E. CAPACITOR 35V 47U | 1 | |
| C4677 | ECEA1CU470 | E. CAPACITOR 16V 47U | 1 | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| C5005 | ECEA1HKA3R3 | E. CAPACITOR 50V 3.3U | 1 | |
| C5006 | ECUM1H150JCN | C. CAPACITOR CH 50V 15P | 1 | |
| C5007-09 | ECUM1H330JCN | C. CAPACITOR CH 50V 33P | 3 | |
| C5012, 13 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 2 | |
| C5014 | ECEA0JKA470 | E. CAPACITOR 6.3V 47U | 1 | |
| C5015, 16 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 2 | |
| C5701 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C5702 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 1 | |
| C5703 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C5704 | ECEA0JKA221 | E. CAPACITOR 6.3V 220U | 1 | |
| C5705, 06 | ECUM1H121JCN | C. CAPACITOR CH 50V 120P | 2 | |
| C5707 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C5708, 09 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 2 | |
| C5710 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C5801 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 1 | |
| C5802 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C5803 | ECEA0JKA470 | E. CAPACITOR 6.3V 47U | 1 | |
| C5804 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C5805 | ECUX1H050DCN | C. CAPACITOR CH 50V 5P | 1 | |
| C5806 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C5807 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C6001 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C6002 | ECUM1C224ZFN | C. CAPACITOR CH 16V 0.22U | 1 | |
| C6003 | ECEA1HKA2R2 | E. CAPACITOR 50V 2.2U | 1 | |
| C6004 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C6005 | ECEA0JKA470 | E. CAPACITOR 6.3V 47U | 1 | |
| C6006 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C6007 | ECEA0JKA101 | E. CAPACITOR 6.3V 100U | 1 | |
| C6008 | ECUM1H270JCN | C. CAPACITOR CH 50V 27P | 1 | |
| C6009 | ECUM1H150JCN | C. CAPACITOR CH 50V 15P | 1 | |
| C6010 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C6011-14 | ECUM1H271JCN | C. CAPACITOR CH 50V 270P | 4 | |
| C6015 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 1 | |
| C6016 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C6017 | ECUX1H561JCN | C. CAPACITOR CH 50V 560P | 1 | |
| C6018 | ECUM1H104ZFM | C. CAPACITOR CH 50V 0.1U | 1 | |
| C6024 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C7301, 02 | ECUX1H103ZFV | C. CAPACITOR CH 50V 0.01U | 2 | |
| C7303 | ECEA1CKA470 | E. CAPACITOR 16V 47U | 1 | |
| C7304 | ECUX1H103ZFV | C. CAPACITOR CH 50V 0.01U | 1 | |
| C7305 | ECEA1CKA220 | E. CAPACITOR 16V 22U | 1 | |
| C7306 | ECUX1H391JCV | C. CAPACITOR CH 50V 390P | 1 | |
| C7309-12 | ECUX1H103ZFV | C. CAPACITOR CH 50V 0.01U | 4 | |
| C7313 | ECEA0JKA220 | E. CAPACITOR 6.3V 22U | 1 | |
| C7314 | ECUX1H103ZFV | C. CAPACITOR CH 50V 0.01U | 1 | |
| C7315 | ECEA1EKA4R7 | E. CAPACITOR 25V 4.7U | 1 | |
| C7317 | ECUX1H090DCV | C. CAPACITOR CH 50V 90P | 1 | |
| C7319 | ECRHA02OD54R | V. CAPACITOR 50K | 1 | |
| C7320 | ECEA0JKA101 | E. CAPACITOR 6.3V 100U | 1 | |
| C7321 | ECUX1H103ZFV | C. CAPACITOR CH 50V 0.01U | 1 | |
| C7322 | ECEA1EKA4R7 | E. CAPACITOR 25V 4.7U | 1 | |
| C7323, 24 | ECUX1H391JCV | C. CAPACITOR CH 50V 390P | 2 | |
| C7325, 26 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 2 | |
| C7327 | ECUX1C104ZFV | C. CAPACITOR CH 16V 0.1U | 1 | |
| C7328 | ECEA1CKA470 | E. CAPACITOR 16V 47U | 1 | |
| C7329, 30 | ECUX1H471JCV | C. CAPACITOR CH 50V 470P | 2 | |
| C7331 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 1 | |
| C7332, 33 | ECUX1C104ZFV | C. CAPACITOR CH 16V 0.1U | 2 | |
| C7334 | ECEA0JKA101 | E. CAPACITOR 6.3V 100U | 1 | |
| C7335 | ECUX1C104ZFV | C. CAPACITOR CH 16V 0.1U | 1 | |
| C7338 | ECUM1H471JCN | C. CAPACITOR CH 50V 470P | 1 | |
| C7339 | ECUM1H182KBM | C. CAPACITOR CH 50V 1800P | 1 | |
| C7340 | ECUM1H270JCN | C. CAPACITOR CH 50V 27P | 1 | |
| C7341 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 1 | |
| C7342 | ECUM1H561JCN | C. CAPACITOR CH 50V 560P | 1 | |
| C7343 | ECEA1HKA010 | E. CAPACITOR 50V 1U | 1 | |
| C7344 | ECUM1H471JCN | C. CAPACITOR CH 50V 470P | 1 | |
| C7345 | ECUM1H182KBM | C. CAPACITOR CH 50V 1800P | 1 | |
| C7346 | ECUM1H270JCN | C. CAPACITOR CH 50V 27P | 1 | |
| C7347 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 1 | |
| C7348 | ECUM1H561JCN | C. CAPACITOR CH 50V 560P | 1 | |
| C7350 | ECEA1HKA010 | E. CAPACITOR 50V 1U | 1 | |
| C7351 | ECUM1H471JCN | C. CAPACITOR CH 50V 470P | 1 | |
| C7352 | ECUM1H182KBM | C. CAPACITOR CH 50V 1800P | 1 | |
| C7353 | ECUM1H270JCN | C. CAPACITOR CH 50V 27P | 1 | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| C7354 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 1 | |
| C7355 | ECUM1H561JCN | C. CAPACITOR CH 50V 560P | 1 | |
| C7357 | ECUX1C104ZFV | C. CAPACITOR CH 16V 0.1U | 1 | |
| C7358 | ECEA1HKA3R3 | E. CAPACITOR 50V 3.3U | 1 | |
| C7359 | ECUX1C104ZFV | C. CAPACITOR CH 16V 0.1U | 1 | |
| C7365, 66 | ECEA1HKA010 | E. CAPACITOR 50V 1U | 2 | |
| C7369 | ECEA0JKA470 | E. CAPACITOR 6.3V 47U | 1 | |
| C7370 | ECUX1C104ZFV | C. CAPACITOR CH 16V 0.1U | 1 | |
| C7371, 72 | ECUX1H103ZFV | C. CAPACITOR CH 50V 0.01U | 2 | |
| C7374, 75 | ECUX1H150JCV | C. CAPACITOR CH 50V 15P | 2 | |
| C7601, 02 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 2 | |
| C7603 | ECEA1CKA101 | E. CAPACITOR 16V 100U | 1 | |
| C7604 | ECEA0JKA101 | E. CAPACITOR 6.3V 100U | 1 | |
| C7605 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C7606 | ECEA1CKA101 | E. CAPACITOR 16V 100U | 1 | |
| C7607 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C7608 | ECUM1C105ZFN | C. CAPACITOR CH 16V 1U | 1 | |
| C7609 | ECEA0JKA101 | E. CAPACITOR 6.3V 100U | 1 | |
| C7610, 11 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 2 | |
| C7612 | ECEA0JKA101 | E. CAPACITOR 6.3V 100U | 1 | |
| C7613 | ECUM1H180JCN | C. CAPACITOR CH 50V 18P | 1 | |
| C7614 | ECEA1HKA100 | E. CAPACITOR 50V 10U | 1 | |
| C7615 | ECEA1HKA010 | E. CAPACITOR 50V 1U | 1 | |
| C7616 | ECUM1E104KBN | C. CAPACITOR CH 25V 0.1U | 1 | |
| C7617 | ECEA1AKS221 | E. CAPACITOR 10V 220U | 1 | |
| C7701 | ECUM1H150JCN | C. CAPACITOR CH 50V 15P | 1 | |
| C7702 | ECUM1H080DCN | C. CAPACITOR CH 50V 8P | 1 | |
| C7703 | ECUM1C224ZFN | C. CAPACITOR CH 16V 0.22U | 1 | |
| C7704, 05 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 2 | |
| C7706 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C7707-10 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 4 | |
| C7712 | ECEA0JKA470 | E. CAPACITOR 6.3V 47U | 1 | |
| C7713 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 1 | |
| C7714 | ECEA0JKA470 | E. CAPACITOR 6.3V 47U | 1 | |
| C7715 | ECEA1CKN100 | E. CAPACITOR 16V 10U | 1 | |
| C7716 | ECUM1H120JCN | C. CAPACITOR CH 50V 12P | 1 | |
| C7718 | ECUX1H561JCN | C. CAPACITOR CH 50V 560P | 1 | |
| C7719 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C7720 | ECEA0JKA470 | E. CAPACITOR 6.3V 47U | 1 | |
| C7721 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C7722 | ECUM1H270JCN | C. CAPACITOR CH 50V 27P | 1 | |
| C7723 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C7724 | ECEA0JKA470 | E. CAPACITOR 6.3V 47U | 1 | |
| C7727 | ECEA0JKA470 | E. CAPACITOR 6.3V 47U | 1 | |
| C7729 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C7731 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C7732 | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 1 | |
| C7734 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C7736 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C7737 | ECEA0JKA470 | E. CAPACITOR 6.3V 47U | 1 | |
| C7738, 39 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 2 | |
| C7742 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C7743 | ECUM1C105ZFN | C. CAPACITOR CH 16V 1U | 1 | |
| C7744 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C7745 | ECUM1C224ZFN | C. CAPACITOR CH 16V 0.22U | 1 | |
| C7746, 47 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 2 | |
| C7748 | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 1 | |
| C7749 | ECUM1H473ZFN | C. CAPACITOR CH 50V 0.047U | 1 | |
| C7750 | ECUM1C224ZFN | C. CAPACITOR CH 16V 0.22U | 1 | |
| | | | | |
| D301 | MA723 | DIODE | 1 | |
| D303 | 1SS355 | DIODE | 1 | |
| D305 | 1SS355 | DIODE | 1 | |
| D306 | 1SS254 | DIODE | 1 | |
| D307 | 1SS355 | DIODE | 1 | |
| D310, 11 | 1SS355 | DIODE | 2 | |
| D313, 14 | 1SS355 | DIODE | 2 | |
| D315, 16 | 1SS254 | DIODE | 2 | |
| D317, 18 | 1SS355 | DIODE | 2 | |
| D319, 20 | MA151WK | DIODE | 2 | |
| D321 | 1SS355 | DIODE | 1 | |
| D1001 | MA4051-L | DIODE | 1 | |
| D1003 | MA4120-M | DIODE | 1 | |
| D1004 | MA4051-L | DIODE | 1 | |
| D1005 | 1SS355 | DIODE | 1 | |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| D1007, 08 | 1SS355 | DIODE | 2 | |
| D1009 | 1SS254 | DIODE | 1 | |
| D2001 | MA153 | DIODE | 1 | |
| D2002 | MA151K | DIODE | 1 | |
| D2003-05 | 1SS355 | DIODE | 3 | |
| D2006, 07 | MA700 | DIODE | 2 | |
| D2008, 09 | MA185 | DIODE | 2 | |
| D3001-03 | 1SS254 | DIODE | 3 | |
| D3005 | MA723 | DIODE | 1 | |
| D3015 | 1SS355 | DIODE | 1 | |
| D3016 | MA700A | DIODE | 1 | |
| D4001 | 1SS254 | DIODE | 1 | |
| D4003-05 | 1SS254 | DIODE | 3 | |
| D4504 | 1SS254 | DIODE | 1 | |
| D5801-04 | 1SS355 | DIODE | 4 | |
| D6001 | LN59LT. VT | LED | 1 | |
| D6002 | MA4075-L | DIODE | 1 | |
| D6003 | MA151K | DIODE | 1 | |
| D6006 | MA151K | DIODE | 1 | |
| D6007, 08 | 1SS254 | DIODE | 2 | |
| D7301 | MA3082-L | DIODE | 1 | |
| D7302 | MA151K | DIODE | 1 | |
| D7303 | MA151WK | DIODE | 1 | |
| D7304 | MA717 | DIODE | 1 | |
| D7306 | MA151WK | DIODE | 1 | |
| D7308 | MA723 | DIODE | 1 | |
| D7601 | MA4300-M | DIODE | 1 | |
| D7702, 03 | 1SS355 | DIODE | 2 | |
| D7704 | MA700A | DIODE | 1 | |
| | | | | |
| DL301 | VLD0198 | DELAY LINE | 1 | |
| DL7701 | ELB4Y026 | FILTER | 1 | |
| | | | | |
| FL7301, 02 | VLF0633 | FILTER | 2 | |
| | | | | |
| IC301 | TDA9725 | IC | 1 | [SUPPLIED FROM MBV] |
| IC302 | MSM7403MS | IC | 1 | |
| IC303 | M52352FP | IC | 1 | |
| IC0701 | LA7576 | IC | 1 | |
| IC851 | TA1225N | IC | 1 | |
| IC1001 | HA17431PA | IC | 1 | |
| IC2001 | BA6887-V3 | IC | 1 | |
| IC2002 | BA6871BS | IC | 1 | |
| IC4001 | BA7795FS | IC | 1 | |
| IC4501 | BH7778AK | IC | 1 | |
| IC4502 | MC14052BF | IC | 1 | |
| IC4503 | BA7735FS | IC | 1 | [SUPPLIED FROM MBV] |
| IC5701 | MM1188XS | IC | 1 | [SUPPLIED FROM MBV] |
| IC6001 | MN6755486H4N | IC | 1 | [SUPPLIED FROM MBV] |
| IC6002, 03 | ON1387 | IC | 2 | |
| IC7301 | MSP3410-15 | IC | 1 | |
| IC7302 | PST7043 | IC | 1 | |
| IC7303 | M5238FP | IC | 1 | |
| IC7304 | HA17431PA | IC | 1 | |
| IC7305 | MN155402VZDB | IC | 1 | |
| IC7306 | PST7043 | IC | 1 | |
| IC7701 | M27C512MBUA | IC | 1 | [SUPPLIED FROM MBV] |
| IC7702 | 74HCT573D | IC | 1 | |
| IC7703 | NJM2535M | IC | 1 | [SUPPLIED FROM MBV] |
| IC7704 | ST24W16FB6 | IC | 1 | [SUPPLIED FROM MBV] |
| IC7705 | TDA8501 | IC | 1 | |
| IC7706 | P83C528MAAC | IC | 1 | [SUPPLIED FROM MBV] |
| IC7707 | MC74HC164FL2 | IC | 1 | |
| IC7708 | SAA5281ZPM3 | IC | 1 | |
| IC7709 | MC74HC161AF2 | IC | 1 | |
| IC7710 | UPC393G2 | IC | 1 | |
| IC7711 | PST7043 | IC | 1 | |
| | | | | |
| K309 | ERJ6GEY0R00 | M. RESISTOR CH 1/10W 0 | 1 | |
| K315 | ERJ6GEY0R00 | M. RESISTOR CH 1/10W 0 | 1 | |
| K318 | ERJ3GEY0R00 | M. RESISTOR CH 1/16W 0 | 1 | |
| K0702 | ERJ3GEY0R00 | M. RESISTOR CH 1/16W 0 | 1 | |
| K0704, 05 | ERJ3GEY0R00 | M. RESISTOR CH 1/16W 0 | 2 | |
| K1001 | ERJ6GMZ0R00 | M. RESISTOR CH 1/10W 0 | 1 | |
| K3005 | ERJ6GMZ0R00 | M. RESISTOR CH 1/10W 0 | 1 | |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| K3040 | ERJ6GMZ0R00 | M. RESISTOR CH 1/10W 0 | 1 | |
| K4001 | ERJ6GMZ0R00 | M. RESISTOR CH 1/10W 0 | 1 | |
| K4003 | ERJ6GMZ0R00 | M. RESISTOR CH 1/10W 0 | 1 | |
| K4009 | ERJ6GMZ0R00 | M. RESISTOR CH 1/10W 0 | 1 | |
| K4503, 04 | ERJ3GEY0R00 | M. RESISTOR CH 1/16W 0 | 2 | |
| K4651 | ERJ6GEY0R00 | M. RESISTOR CH 1/10W 0 | 1 | |
| K5801 | ERJ6GEY0R00 | M. RESISTOR CH 1/10W 0 | 1 | |
| K6001, 02 | ERJ6GMZ0R00 | M. RESISTOR CH 1/10W 0 | 2 | |
| K7304-07 | ERJ3GEY0R00 | M. RESISTOR CH 1/16W 0 | 4 | |
| K7314 | ERJ3GEY0R00 | M. RESISTOR CH 1/16W 0 | 1 | |
| K7317 | ERJ3GEY0R00 | M. RESISTOR CH 1/16W 0 | 1 | |
| K7604 | ERJ6GMZ0R00 | M. RESISTOR CH 1/10W 0 | 1 | |
| K7619 | ERJ6GMZ0R00 | M. RESISTOR CH 1/10W 0 | 1 | |
| K7704 | ERJ6GMZ0R00 | M. RESISTOR CH 1/10W 0 | 1 | |
| K7706 | ERJ6GMZ0R00 | M. RESISTOR CH 1/10W 0 | 1 | |
| K7709 | ERJ6GMZ0R00 | M. RESISTOR CH 1/10W 0 | 1 | |
| | | | | |
| L301 | VLQ0599J151 | COIL 150UH | 1 | |
| L302 | VLQ0599J6R8 | COIL 6.8UH | 1 | |
| L303 | VLQ0599J100 | COIL 10UH | 1 | |
| L304 | VLQ0599J390 | COIL 39UH | 1 | |
| L305 | VLQ0599J680 | COIL 68UH | 1 | |
| L306, 07 | VLQ0599J390 | COIL 39UH | 2 | |
| L308 | VLQ0599J150 | COIL 15UH | 1 | |
| L309 | VLQ0599J470 | COIL 47UH | 1 | |
| L311 | VLQ0599J150 | COIL 15UH | 1 | |
| L312 | VLQ0599J680 | COIL 68UH | 1 | |
| L0701, 02 | ELJNAR10MF | COIL 0.1UH | 2 | |
| L0705 | VLQ0163J5R6 | COIL 5.6UH | 1 | |
| L0706 | VLQEL05S120K | COIL 12UH | 1 | |
| L851, 52 | VLQ0599J680 | COIL 68UH | 2 | |
| L853-57 | ERJ6GMZ0R00 | M. RESISTOR CH 1/10W 0 | 5 | |
| L2001 | VLP0083 | COIL | 1 | |
| L3001 | VLQ0599J820 | COIL 82UH | 1 | |
| L3002 | VLQ0599J151 | COIL 150UH | 1 | |
| L3003 | VLQ0599J6R8 | COIL 6.8UH | 1 | |
| L3004 | VLQ0599J120 | COIL 12UH | 1 | |
| L3006 | VLQ0599J101 | COIL 100UH | 1 | |
| L3008 | VLQ0599J270 | COIL 27UH | 1 | |
| L3009 | VLQ0599J680 | COIL 68UH | 1 | |
| L3012 | VLQ0599J680 | COIL 68UH | 1 | |
| L3013 | VLP0099 | COIL | 1 | |
| L4001 | ELESE101KA | COIL 100UH | 1 | |
| L4002 | ELESN471KA | COIL 470UH | 1 | |
| L4003 | VLQ0599J680 | COIL 68UH | 1 | |
| L4005, 06 | VLP0150 | COIL | 2 | |
| L4007 | VLQ0123 | COIL | 1 | |
| L5001 | VLQ0599J680 | COIL 68UH | 1 | |
| L5002, 03 | VLQ0599J270 | COIL 27UH | 2 | |
| L5004 | VLQ0599J150 | COIL 15UH | 1 | |
| L5701 | VLQ0599J680 | COIL 68UH | 1 | |
| L5702 | VLQ0599J101 | COIL 100UH | 1 | |
| L5801 | ELESE101KA | COIL 100UH | 1 | |
| L6001 | ELESE101KA | COIL 100UH | 1 | |
| L6002 | VLP0083 | COIL | 1 | |
| L6003, 04 | VLQ0599J680 | COIL 68UH | 2 | |
| L7301 | ELEXH100JBV | COIL 10UH | 1 | |
| L7302 | VLP0150 | COIL | 1 | |
| L7601, 02 | VLQ0599J1R0 | COIL 1UH | 2 | |
| L7603-05 | VLQ0599J680 | COIL 68UH | 3 | |
| L7606 | VLQ0599J2R2 | COIL 2.2UH | 1 | |
| L7607, 08 | VLQ0599J680 | COIL 68UH | 2 | |
| L7701 | VLQ0599J100 | COIL 10UH | 1 | |
| L7702 | VLQ0599J3R3 | COIL 3.3UH | 1 | |
| L7703 | VLQ0599J270 | COIL 27UH | 1 | |
| L7704 | VLQ0599J100 | COIL 10UH | 1 | |
| L7705 | VLQ0599J101 | COIL 100UH | 1 | |
| L7707 | VLQ0599J120 | COIL 12UH | 1 | |
| | | | | |
| LB5701 | ERJ6GEY0R00 | M. RESISTOR CH 1/10W 0 | 1 | |
| | | | | |
| P851 | VJR0777B011W | CONNECTOR (MALE) 11P | 1 | |
| P2001 | VJS3640A002 | CONNECTOR (FEMALE) 2P | 1 | |
| P2002 | VJS3537A015G | CONNECTOR (FEMALE) 15P | 1 | |
| P2003 | VJP3502 | CONNECTOR (MALE) | 1 | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| P2004 | VJP1232T | CONNECTOR (MALE) 5P | 1 | |
| P3002 | VJS3537A020G | CONNECTOR (FEMALE) 20P | 1 | |
| P4002 | VJS3675E006G | CONNECTOR (FEMALE) 6P | 1 | |
| P4003 | VJP1230T | CONNECTOR (MALE) 3P | 1 | |
| P5001 | VJR0777B005W | CONNECTOR (MALE) 5P | 1 | |
| P5701 | VJR0777B006W | CONNECTOR (MALE) 6P | 1 | |
| P6001 | VJS3821 | CONNECTOR (FEMALE) 4P | 1 | |
| | | | | |
| PK301 | VJR0776B010W | CONNECTOR (MALE) 10P | 1 | |
| PK302 | VJR0776B011W | CONNECTOR (MALE) 11P | 1 | |
| PK303 | VJR0776B012W | CONNECTOR (MALE) 12P | 1 | |
| PK304 | VJR0776B003W | CONNECTOR (MALE) 3P | 1 | |
| PK0701 | VJR0816E010W | CONNECTOR (MALE) 10P | 1 | |
| PK4501 | VJR0777B008W | CONNECTOR (MALE) 8P | 1 | |
| PK4502 | VJR0777B013W | CONNECTOR (MALE) 13P | 1 | |
| PK4503 | VJR0777B010W | CONNECTOR (MALE) 10P | 1 | |
| PK5801 | VJR0777B007W | CONNECTOR (MALE) 7P | 1 | |
| PK7301 | VJR0777B009W | CONNECTOR (MALE) 9P | 1 | |
| PK7302 | VJR0777B008W | CONNECTOR (MALE) 8P | 1 | |
| | | | | |
| PP0701 | VJP3589A004B | CONNECTOR (MALE) 4P | 1 | |
| PP3002 | VJP3042G013W | CONNECTOR (MALE) 13P | 1 | |
| PP3003, 04 | VJP3042G007W | CONNECTOR (MALE) 7P | 2 | |
| PP3005 | VJP3042A010W | CONNECTOR (MALE) 10P | 1 | |
| | | | | |
| PS3001 | VJS3673F014G | CONNECTOR (FEMALE) 14P | 1 | [SUPPLIED FROM MBV] |
| PS3006 | VJS3631A011A | CONNECTOR (FEMALE) 11P | 1 | |
| PS6002 | VJS3673B025G | CONNECTOR (FEMALE) 25P | 1 | |
| | | | | |
| Q301, 02 | MSC2295 | TRANSISTOR | 2 | |
| Q304 | MSC2295 | TRANSISTOR | 1 | |
| Q305 | MSD601 | TRANSISTOR | 1 | |
| Q306 | MSB709 | TRANSISTOR | 1 | |
| Q307 | MSB709-R | TRANSISTOR | 1 | |
| Q0701 | MSD601-S | TRANSISTOR | 1 | |
| Q0702 | MSB709-R | TRANSISTOR | 1 | |
| Q1001 | 2SD601A | TRANSISTOR | 1 | |
| Q1002-04 | 2SD1996-S | TRANSISTOR | 3 | |
| Q1005 | 2SD601A | TRANSISTOR | 1 | |
| Q1007 | 2SD2544OPQA | TRANSISTOR | 1 | |
| Q3001 | MSC2295 | TRANSISTOR | 1 | |
| Q3002 | MSB709 | TRANSISTOR | 1 | |
| Q3003, 04 | MSD601 | TRANSISTOR | 2 | |
| Q3005 | MSC2295 | TRANSISTOR | 1 | |
| Q3006 | MSB709 | TRANSISTOR | 1 | |
| Q3007 | MSC2295 | TRANSISTOR | 1 | |
| Q3010 | MSB709-R | TRANSISTOR | 1 | |
| Q3011 | 2SD601A | TRANSISTOR | 1 | |
| Q3012 | 2SB1322 | TRANSISTOR | 1 | |
| Q3017 | MSC2295 | TRANSISTOR | 1 | |
| Q3020 | MSD601 | TRANSISTOR | 1 | |
| Q3023 | MSC2295 | TRANSISTOR | 1 | |
| Q3024 | MSD601 | TRANSISTOR | 1 | |
| Q4001 | 2SB709A-R | TRANSISTOR | 1 | |
| Q4002 | 2SD602A-R | TRANSISTOR | 1 | |
| Q4003, 04 | MSD601 | TRANSISTOR | 2 | |
| Q4005 | 2SB1320A-R | TRANSISTOR | 1 | |
| Q4006 | 2SD602A-R | TRANSISTOR | 1 | |
| Q4007-09 | MSD601-R | TRANSISTOR | 3 | |
| Q4501 | 2SD1468 | TRANSISTOR | 1 | |
| Q4551 | 2SA1515 | TRANSISTOR | 1 | |
| Q5001 | MSB709 | TRANSISTOR | 1 | |
| Q5002 | MSD601 | TRANSISTOR | 1 | |
| Q5003 | 2SA1022 | TRANSISTOR | 1 | |
| Q5005 | XN1501 | TRANSISTOR-RESISTOR | 1 | |
| Q5006 | MSB709 | TRANSISTOR | 1 | |
| Q5007 | MSC2295 | TRANSISTOR | 1 | |
| Q5008 | MSB709 | TRANSISTOR | 1 | |
| Q5009-13 | MSC2295 | TRANSISTOR | 5 | |
| Q5701 | MSC2295 | TRANSISTOR | 1 | |
| Q5801 | MSB709 | TRANSISTOR | 1 | |
| Q5803 | MSC2295 | TRANSISTOR | 1 | |
| Q5804 | MSB709 | TRANSISTOR | 1 | |
| Q5805 | MSD601 | TRANSISTOR | 1 | |
| Q6001 | MSB709 | TRANSISTOR | 1 | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| Q6002, 03 | PN205LT-NGVT | PHOTO TRANSISTOR | 2 | |
| Q7301, 02 | 2SD1996 | TRANSISTOR | 2 | |
| Q7304 | 2SC2404 | TRANSISTOR | 1 | |
| Q7305 | MSD601-S | TRANSISTOR | 1 | |
| Q7308-10 | 2SB709A | TRANSISTOR | 3 | |
| Q7311-13 | MSD1328-S | TRANSISTOR | 3 | |
| Q7603 | 2SB710A | TRANSISTOR | 1 | |
| Q7703 | MSB709 | TRANSISTOR | 1 | |
| Q7704, 05 | MSD601 | TRANSISTOR | 2 | |
| Q7706 | MSB709 | TRANSISTOR | 1 | |
| | | | | |
| QR302 | MUN2113 | TRANSISTOR-RESISTOR | 1 | |
| QR303 | MUN2212 | TRANSISTOR-RESISTOR | 1 | |
| QR304 | MUN2113 | TRANSISTOR-RESISTOR | 1 | |
| QR305 | MUN2213 | TRANSISTOR-RESISTOR | 1 | |
| QR311 | MUN2113 | TRANSISTOR-RESISTOR | 1 | |
| QR315 | MUN2213 | TRANSISTOR-RESISTOR | 1 | |
| QR317 | MUN2213 | TRANSISTOR-RESISTOR | 1 | |
| QR1001, 02 | MUN2113 | TRANSISTOR-RESISTOR | 2 | |
| QR1003 | MUN2211 | TRANSISTOR-RESISTOR | 1 | |
| QR3001 | MUN2111 | TRANSISTOR-RESISTOR | 1 | |
| QR3002, 03 | DTC363EK | TRANSISTOR-RESISTOR | 2 | |
| QR3004 | MUN2113 | TRANSISTOR-RESISTOR | 1 | |
| QR3007 | MUN2111 | TRANSISTOR-RESISTOR | 1 | |
| QR3008-12 | MUN2212 | TRANSISTOR-RESISTOR | 5 | |
| QR3018 | MUN2212 | TRANSISTOR-RESISTOR | 1 | |
| QR3026 | MUN2212 | TRANSISTOR-RESISTOR | 1 | |
| QR4001, 02 | MUN2212 | TRANSISTOR-RESISTOR | 2 | |
| QR4651, 52 | UN5213 | TRANSISTOR-RESISTOR | 2 | |
| QR6001 | XN1211 | TRANSISTOR-RESISTOR | 1 | |
| QR6002 | UN2114 | TRANSISTOR-RESISTOR | 1 | |
| QR6004 | XN1213 | TRANSISTOR-RESISTOR | 1 | |
| QR6005 | MUN2112 | TRANSISTOR-RESISTOR | 1 | |
| QR6006 | XN1211 | TRANSISTOR-RESISTOR | 1 | |
| QR6007 | MUN2211 | TRANSISTOR-RESISTOR | 1 | |
| QR7301 | MUN2213 | TRANSISTOR-RESISTOR | 1 | |
| QR7302 | MUN2112 | TRANSISTOR-RESISTOR | 1 | |
| QR7601, 02 | MUN2213 | TRANSISTOR-RESISTOR | 2 | |
| QR7701 | UN2216 | TRANSISTOR-RESISTOR | 1 | |
| QR7702 | UN2215 | TRANSISTOR-RESISTOR | 1 | |
| QR7703 | MUN2113 | TRANSISTOR-RESISTOR | 1 | |
| | | | | |
| R303 | ERJ3GEYJ182 | M. RESISTOR CH 1/16W 1.8K | 1 | |
| R306 | ERJ3GEYJ392 | M. RESISTOR CH 1/16W 3.9K | 1 | |
| R307 | ERJ3GEYJ271 | M. RESISTOR CH 1/16W 270 | 1 | |
| R308 | ERJ3GEYG102 | M. RESISTOR CH 1/16W 1K | 1 | |
| R309 | ERJ3GEYJ271 | M. RESISTOR CH 1/16W 270 | 1 | |
| R310, 11 | ERJ3GEYG152 | M. RESISTOR CH 1/16W 1.5K | 2 | |
| R312 | ERJ3GEYG472 | M. RESISTOR CH 1/16W 4.7K | 1 | |
| R313 | ERJ3GEYJ473 | M. RESISTOR CH 1/16W 47K | 1 | |
| R314 | ERJ3GEYJ683 | M. RESISTOR CH 1/16W 68K | 1 | |
| R315 | ERJ3GEYJ223 | M. RESISTOR CH 1/16W 22K | 1 | |
| R316 | ERJ3GEYJ103 | M. RESISTOR CH 1/16W 10K | 1 | |
| R317 | ERJ3GEYG472 | M. RESISTOR CH 1/16W 4.7K | 1 | |
| R319 | ERJ3GEYJ183 | M. RESISTOR CH 1/16W 18K | 1 | |
| R320 | ERJ3GEYJ821 | M. RESISTOR CH 1/16W 820 | 1 | |
| R321 | ERJ3GEYJ120 | M. RESISTOR CH 1/16W 12 | 1 | |
| R322 | ERJ3GEYJ223 | M. RESISTOR CH 1/16W 22K | 1 | |
| R323 | ERJ3GEYG472 | M. RESISTOR CH 1/16W 4.7K | 1 | |
| R324, 25 | ERJ3GEYJ103 | M. RESISTOR CH 1/16W 10K | 2 | |
| R326 | ERJ3GEYG472 | M. RESISTOR CH 1/16W 4.7K | 1 | |
| R327 | ERJ3GEYJ101 | M. RESISTOR CH 1/16W 100 | 1 | |
| R328 | ERJ3GEYJ561 | M. RESISTOR CH 1/16W 560 | 1 | |
| R329 | ERJ3GEYG471 | M. RESISTOR CH 1/16W 470 | 1 | |
| R330 | ERJ3GEYJ122 | M. RESISTOR CH 1/16W 1.2K | 1 | |
| R332 | ERJ3GEYJ390 | M. RESISTOR CH 1/16W 39 | 1 | |
| R333 | ERJ3GEYJ561 | M. RESISTOR CH 1/16W 560 | 1 | |
| R334 | ERJ6GEYG101 | M. RESISTOR CH 1/10W 100 | 1 | |
| R335 | ERJ3GEYJ122 | M. RESISTOR CH 1/16W 1.2K | 1 | |
| R336 | ERJ6GEYG271 | M. RESISTOR CH 1/10W 270 | 1 | |
| R337 | ERJ3GEYJ561 | M. RESISTOR CH 1/16W 560 | 1 | |
| R338 | ERJ3GEYJ122 | M. RESISTOR CH 1/16W 1.2K | 1 | |
| R339 | ERJ3GEYJ273 | M. RESISTOR CH 1/16W 27K | 1 | |
| R341 | ERJ3GEYJ101 | M. RESISTOR CH 1/16W 100 | 1 | |
| R346 | ERJ3GEYJ473 | M. RESISTOR CH 1/16W 47K | 1 | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| R350 | ERJ3GEYG152 | M. RESISTOR CH 1/16W 1.5K | 1 | |
| R351 | ERJ3GEY0R00 | M. RESISTOR CH 1/16W 0 | 1 | |
| R352, 53 | ERJ3GEYJ222 | M. RESISTOR CH 1/16W 2.2K | 2 | |
| R354 | ERJ3GEYJ392 | M. RESISTOR CH 1/16W 3.9K | 1 | |
| R355, 56 | ERJ3GEYJ681 | M. RESISTOR CH 1/16W 680 | 2 | |
| R357 | ERJ3GEYJ272 | M. RESISTOR CH 1/16W 2.7K | 1 | |
| R358 | ERJ3GEYJ122 | M. RESISTOR CH 1/16W 1.2K | 1 | |
| R359 | ERJ3GEYG152 | M. RESISTOR CH 1/16W 1.5K | 1 | |
| R360 | ERJ3GEYJ122 | M. RESISTOR CH 1/16W 1.2K | 1 | |
| R361 | ERJ6GEYG271 | M. RESISTOR CH 1/10W 270 | 1 | |
| R362 | ERJ3GEYJ154 | M. RESISTOR CH 1/16W 150K | 1 | |
| R363 | ERJ3GEYJ204 | M. RESISTOR CH 1/16W 200K | 1 | |
| R364 | ERJ6GEYG153 | M. RESISTOR CH 1/10W 15K | 1 | |
| R365 | ERJ3GEYJ103 | M. RESISTOR CH 1/16W 10K | 1 | |
| R366 | ERJ3GEYJ154 | M. RESISTOR CH 1/16W 150K | 1 | |
| R367 | ERJ3GEYJ103 | M. RESISTOR CH 1/16W 10K | 1 | |
| R369 | ERJ3GEYJ393 | M. RESISTOR CH 1/16W 39K | 1 | |
| R372 | ERJ3GEYJ562 | M. RESISTOR CH 1/16W 5.6K | 1 | |
| R0702 | ERJ3GEYJ272 | M. RESISTOR CH 1/16W 2.7K | 1 | |
| R0704 | ERJ3GEYJ222 | M. RESISTOR CH 1/16W 2.2K | 1 | |
| R0705 | ERJ3GEYJ562 | M. RESISTOR CH 1/16W 5.6K | 1 | |
| R0706, 07 | ERJ3GEYJ272 | M. RESISTOR CH 1/16W 2.7K | 2 | |
| R0708 | ERJ3GEYG152 | M. RESISTOR CH 1/16W 1.5K | 1 | |
| R0709 | ERJ3GEYJ105 | M. RESISTOR CH 1/16W 1M | 1 | |
| R0710 | ERJ6GEYG154 | M. RESISTOR CH 1/10W 150K | 1 | |
| R0713 | ERJ3GEYJ331 | M. RESISTOR CH 1/16W 330 | 1 | |
| R0714 | ERJ3GEYJ470 | M. RESISTOR CH 1/16W 47 | 1 | |
| R0715 | ERJ3GEYJ183 | M. RESISTOR CH 1/16W 18K | 1 | |
| R0716 | VRE0040E151 | M. RESISTOR CH 1/10W 150 | 1 | |
| R0717 | ERJ3GEY0R00 | M. RESISTOR CH 1/16W 0 | 1 | |
| R0718 | ERJ3GEYG102 | M. RESISTOR CH 1/16W 1K | 1 | |
| R0719 | ERJ6GEYF822 | M. RESISTOR CH 1/10W 8.2K | 1 | |
| R0720 | ERJ3GEYG102 | M. RESISTOR CH 1/16W 1K | 1 | |
| R0722 | ERJ3GEYJ101 | M. RESISTOR CH 1/16W 100 | 1 | |
| R0728 | ERJ3GEYG471 | M. RESISTOR CH 1/16W 470 | 1 | |
| R0729 | ERJ3GEYG102 | M. RESISTOR CH 1/16W 1K | 1 | |
| R0732 | ERJ3GEYG471 | M. RESISTOR CH 1/16W 470 | 1 | |
| R0783 | ERJ3GEYJ393 | M. RESISTOR CH 1/16W 39K | 1 | |
| R852 | ERJ6GMYG821 | M. RESISTOR CH 1/10W 820 | 1 | |
| R853 | ERJ6GMYG203 | M. RESISTOR CH 1/10W 20K | 1 | |
| R1001 | ERJ6GMYG333 | M. RESISTOR CH 1/10W 33K | 1 | |
| R1002 | ERDS2TJ102 | C. RESISTOR 1/4W 1K | 1 | |
| R1003 | ERJ6GMYG272 | M. RESISTOR CH 1/10W 2.7K | 1 | |
| R1004 | ERJ6GMYJ363 | M. RESISTOR CH 1/10W 36K | 1 | |
| R1005 | ERJ6GMYG272 | M. RESISTOR CH 1/10W 2.7K | 1 | |
| R1006 | ERDS2TJ122 | C. RESISTOR 1/4W 1.2K | 1 | |
| R1007 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R1008 | ERJ6GMYG333 | M. RESISTOR CH 1/10W 33K | 1 | |
| R1009, 10 | ERJ6GMYG562 | M. RESISTOR CH 1/10W 5.6K | 2 | |
| R1011 | ERDS1TJ272 | C. RESISTOR 1/2W 2.7K | 1 | |
| R2001 | ERJ6GMYG913 | M. RESISTOR CH 1/10W 91K | 1 | |
| R2002-04 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 3 | |
| R2005 | ERX1SJ1R8 | M. RESISTOR 1W 1.8 | 1 | |
| R2006 | ERJ6GMYG512 | M. RESISTOR CH 1/10W 5.1K | 1 | |
| R2007 | ERJ6GMYG222 | M. RESISTOR CH 1/10W 2.2K | 1 | |
| R2009, 10 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 2 | |
| R2011 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R2012 | ERJ6GMYJ221 | M. RESISTOR CH 1/10W 220 | 1 | |
| R2013 | ERJ6GMYG272 | M. RESISTOR CH 1/10W 2.7K | 1 | |
| R2014, 15 | ERJ6GMYJ223 | M. RESISTOR CH 1/10W 22K | 2 | |
| R2016 | ERJ6GMYG222 | M. RESISTOR CH 1/10W 2.2K | 1 | |
| R2017, 18 | ERJ6GMYJ223 | M. RESISTOR CH 1/10W 22K | 2 | |
| R2019 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R2020 | ERJ6GMYG471 | M. RESISTOR CH 1/10W 470 | 1 | |
| R2021 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R2022 | ERJ6GMYG222 | M. RESISTOR CH 1/10W 2.2K | 1 | |
| R2023 | ERQS2CKG8200 | M. RESISTOR 1/4W 820 | 1 | |
| R2024 | ERQS2CKG6800 | M. RESISTOR 1/4W 680 | 1 | |
| R2025 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R2026, 27 | ERDS2TJ560 | C. RESISTOR 1/4W 56 | 2 | |
| R2028 | ERDS1TJ561 | C. RESISTOR 1/2W 560 | 1 | |
| R2029 | ERJ6GMYG222 | M. RESISTOR CH 1/10W 2.2K | 1 | |
| R2030 | ERJ6GMYG432 | M. RESISTOR CH 1/10W 4.3K | 1 | |
| R2031 | ERJ6GMYG473 | M. RESISTOR CH 1/10W 47K | 1 | |
| R2032 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 1 | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| R2033 | ERJ6GMYJ684 | M. RESISTOR CH 1/10W 680K | 1 | |
| R2034 | ERJ6GMYG133 | M. RESISTOR CH 1/10W 13K | 1 | |
| R2035 | ERJ6GMYJ105 | M. RESISTOR CH 1/10W 1M | 1 | |
| R2036, 37 | ERJ6GMYG472 | M. RESISTOR CH 1/10W 4.7K | 2 | |
| R2038 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R2039, 40 | ERJ6GMYJ105 | M. RESISTOR CH 1/10W 1M | 2 | |
| R2041, 42 | ERJ6GMYG392 | M. RESISTOR CH 1/10W 3.9K | 2 | |
| R2043 | ERDS2TJ560 | C. RESISTOR 1/4W 56 | 1 | |
| R2044 | ERX12SJR47 | M. RESISTOR 1/2W 0.47 | 1 | |
| R2050 | ERJ6GMYG332 | M. RESISTOR CH 1/10W 3.3K | 1 | |
| R2051 | ERJ6GMZOR00 | M. RESISTOR CH 1/10W 0 | 1 | |
| R3001 | ERJ6GMYG561 | M. RESISTOR CH 1/10W 560 | 1 | |
| R3002 | ERJ6GMYG472 | M. RESISTOR CH 1/10W 4.7K | 1 | |
| R3003 | ERJ6GMYG222 | M. RESISTOR CH 1/10W 2.2K | 1 | |
| R3004 | ERJ6GMYG272 | M. RESISTOR CH 1/10W 2.7K | 1 | |
| R3005 | ERJ6GMYG332 | M. RESISTOR CH 1/10W 3.3K | 1 | |
| R3006 | ERDS2TJ472 | C. RESISTOR 1/4W 4.7K | 1 | |
| R3007 | ERJ6GMYG681 | M. RESISTOR CH 1/10W 680 | 1 | |
| R3008 | ERJ6GMYG222 | M. RESISTOR CH 1/10W 2.2K | 1 | |
| R3009 | ERJ6GMYG392 | M. RESISTOR CH 1/10W 3.9K | 1 | |
| R3012 | ERDS2T0 | C. RESISTOR 1/4W 0 | 1 | |
| R3013 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R3014 | ERDS2TJ102 | C. RESISTOR 1/4W 1K | 1 | |
| R3015 | ERJ6GMYG222 | M. RESISTOR CH 1/10W 2.2K | 1 | |
| R3018 | ERJ6GMYJ223 | M. RESISTOR CH 1/10W 22K | 1 | |
| R3019, 20 | ERJ6GMYG561 | M. RESISTOR CH 1/10W 560 | 2 | |
| R3021 | ERJ6GMYJ391 | M. RESISTOR CH 1/10W 390 | 1 | |
| R3022 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R3023, 24 | ERJ6GMYG821 | M. RESISTOR CH 1/10W 820 | 2 | |
| R3025 | ERJ6GMYG152 | M. RESISTOR CH 1/10W 1.5K | 1 | |
| R3026 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R3029 | ERJ6GMYG222 | M. RESISTOR CH 1/10W 2.2K | 1 | |
| R3030 | ERJ6GEYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R3031 | ERJ6GEYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R3032 | ERJ6GMYG334 | M. RESISTOR CH 1/10W 330K | 1 | |
| R3033 | ERJ6GMYJ223 | M. RESISTOR CH 1/10W 22K | 1 | |
| R3034 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R3037 | ERDS2TJ102 | C. RESISTOR 1/4W 1K | 1 | |
| R3039 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R3049 | ERJ6GMYG821 | M. RESISTOR CH 1/10W 820 | 1 | |
| R3050 | ERJ6GMYG123 | M. RESISTOR CH 1/10W 12K | 1 | |
| R3051 | ERJ6GMYG512 | M. RESISTOR CH 1/10W 5.1K | 1 | |
| R3052 | ERJ6GMYG272 | M. RESISTOR CH 1/10W 2.7K | 1 | |
| R3053 | ERJ6GMYG302 | M. RESISTOR CH 1/10W 3K | 1 | |
| R3054 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R3064, 65 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 2 | |
| R3076, 77 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 2 | |
| R3078 | ERDS2T0 | C. RESISTOR 1/4W 0 | 1 | |
| R3079, 80 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 2 | |
| R4003 | ERJ6GMYG100 | M. RESISTOR CH 1/10W 10 | 1 | |
| R4004, 05 | ERJ6GMYG472 | M. RESISTOR CH 1/10W 4.7K | 2 | |
| R4006 | ERJ6GMYG333 | M. RESISTOR CH 1/10W 33K | 1 | |
| R4007 | ERJ6GMYG153 | M. RESISTOR CH 1/10W 15K | 1 | |
| R4008, 09 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 2 | |
| R4010 | ERJ6GMYG273 | M. RESISTOR CH 1/10W 27K | 1 | |
| R4011 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R4012 | ERJ6GMYG123 | M. RESISTOR CH 1/10W 12K | 1 | |
| R4013 | ERJ6GMYJ163 | M. RESISTOR CH 1/10W 16K | 1 | |
| R4014 | ERJ6GMYG562 | M. RESISTOR CH 1/10W 5.6K | 1 | |
| R4015 | ERJ6GMYG333 | M. RESISTOR CH 1/10W 33K | 1 | |
| R4016 | ERJ6GMYJ223 | M. RESISTOR CH 1/10W 22K | 1 | |
| R4017 | ERJ6GMYG133 | M. RESISTOR CH 1/10W 1.3K | 1 | |
| R4019 | ERJ6GMYJ105 | M. RESISTOR CH 1/10W 1M | 1 | |
| R4020 | ERJ6GMYG123 | M. RESISTOR CH 1/10W 12K | 1 | |
| R4021 | ERJ6GMYG473 | M. RESISTOR CH 1/10W 47K | 1 | |
| R4022 | ERJ6GMYG331 | M. RESISTOR CH 1/10W 330 | 1 | |
| R4023 | ERJ6GMYG394 | M. RESISTOR CH 1/10W 390K | 1 | |
| R4024 | ERDS2TJ221 | C. RESISTOR 1/4W 220 | 1 | |
| R4025 | ERJ6GMYG682 | M. RESISTOR CH 1/10W 6.8K | 1 | |
| R4026 | ERJ6GMYG473 | M. RESISTOR CH 1/10W 47K | 1 | |
| R4027 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R4028 | ERJ6GMYG622 | M. RESISTOR CH 1/10W 6.2K | 1 | |
| R4029 | ERJ6GMYG133 | M. RESISTOR CH 1/10W 13K | 1 | |
| R4030 | ERJ6GMYG562 | M. RESISTOR CH 1/10W 5.6K | 1 | |
| R4031 | ERJ6GMYG222 | M. RESISTOR CH 1/10W 2.2K | 1 | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| R4032 | ERJ6GMYG471 | M.RESISTOR CH 1/10W 470 | 1 | |
| R4033 | ERJ6GMYG331 | M.RESISTOR CH 1/10W 330 | 1 | |
| R4034 | ERJ6GMYG203 | M.RESISTOR CH 1/10W 20K | 1 | |
| R4035,36 | ERJ6GMYJ223 | M.RESISTOR CH 1/10W 22K | 2 | |
| R4037 | ERJ6GMYG103 | M.RESISTOR CH 1/10W 10K | 1 | |
| R4038 | ERJ6GMYG332 | M.RESISTOR CH 1/10W 3.3K | 1 | |
| R4039 | ERJ6GMYG102 | M.RESISTOR CH 1/10W 1K | 1 | |
| R4041,42 | ERJ6GMYG393 | M.RESISTOR CH 1/10W 39K | 2 | |
| R4043 | ERG2SJ821 | M.RESISTOR 2W 820 | 1 | |
| R4044 | ERDS1TJ222 | C.RESISTOR 1/2W 2.2K | 1 | |
| R4047 | ERJ6GMYG104 | M.RESISTOR CH 1/10W 100K | 1 | |
| R4048 | ERJ6GMYG473 | M.RESISTOR CH 1/10W 47K | 1 | |
| R4049 | ERJ6GMYG682 | M.RESISTOR CH 1/10W 6.8K | 1 | |
| R4050 | ERJ6GMYJ221 | M.RESISTOR CH 1/10W 220 | 1 | |
| R4051 | ERJ6GMYG682 | M.RESISTOR CH 1/10W 6.8K | 1 | |
| R4054 | ERJ6GMZOR00 | M.RESISTOR CH 1/10W 0 | 1 | |
| R4055 | ERJ6GMYG153 | M.RESISTOR CH 1/10W 15K | 1 | |
| R4056 | ERJ6GMYG393 | M.RESISTOR CH 1/10W 39K | 1 | |
| R4057 | ERJ6GMYG272 | M.RESISTOR CH 1/10W 2.7K | 1 | |
| R4058 | ERJ6GMYG472 | M.RESISTOR CH 1/10W 4.7K | 1 | |
| R4059 | ERJ6GMYG332 | M.RESISTOR CH 1/10W 3.3K | 1 | |
| R4062,63 | ERJ6GMYG243 | M.RESISTOR CH 1/10W 24K | 2 | |
| R4064 | ERJ6GMYJ221 | M.RESISTOR CH 1/10W 220 | 1 | |
| R4065 | ERJ6GMZOR00 | M.RESISTOR CH 1/10W 0 | 1 | |
| R4066 | ERJ6GMYG361 | M.RESISTOR CH 1/10W 360 | 1 | |
| R4067,68 | ERJ6GMYG103 | M.RESISTOR CH 1/10W 10K | 2 | |
| R4069,70 | ERJ6GMYJ683 | M.RESISTOR CH 1/10W 68K | 2 | |
| R4071 | ERJ6GMZOR00 | M.RESISTOR CH 1/10W 0 | 1 | |
| R4073 | ERJ6GMYG103 | M.RESISTOR CH 1/10W 10K | 1 | |
| R4503 | ERJ3RBD203 | M.RESISTOR CH 1/16W 20K | 1 | [SUPPLIED FROM MBV] |
| R4504 | ERJ3GEYG224 | M.RESISTOR CH 1/16W 220K | 1 | |
| R4508 | ERJ3GEYG224 | M.RESISTOR CH 1/16W 220K | 1 | |
| R4512 | ERJ3RBD123 | M.RESISTOR CH 1/16W 12K | 1 | |
| R4513 | ERJ3GEYJ103 | M.RESISTOR CH 1/16W 10K | 1 | |
| R4517,18 | ERJ3GEYJ221 | M.RESISTOR CH 1/16W 220 | 2 | |
| R4519,20 | ERJ3GEYJ103 | M.RESISTOR CH 1/16W 10K | 2 | |
| R4522 | ERJ3GEYK225 | M.RESISTOR CH 1/16W 2.2M | 1 | |
| R4528 | ERJ3RBD153 | M.RESISTOR CH 1/16W 15K | 1 | |
| R4529 | ERJ3GEYG562 | M.RESISTOR CH 1/16W 5.6K | 1 | |
| R4530 | ERJ3GEYJ334 | M.RESISTOR CH 1/16W 330K | 1 | |
| R4534 | ERJ3GEYJ103 | M.RESISTOR CH 1/16W 10K | 1 | |
| R4542 | ERJ3GEYJ222 | M.RESISTOR CH 1/16W 2.2K | 1 | |
| R4562 | ERJ3RBD912 | M.RESISTOR CH 1/16W 9.1K | 1 | [SUPPLIED FROM MBV] |
| R4563 | ERJ3GEYJ272 | M.RESISTOR CH 1/16W 2.7K | 1 | |
| R4584 | ERJ3GEYJ103 | M.RESISTOR CH 1/16W 10K | 1 | |
| R4585 | ERJ3GEYOR00 | M.RESISTOR CH 1/16W 0 | 1 | |
| R4586 | ERJ3GEYJ103 | M.RESISTOR CH 1/16W 10K | 1 | |
| R4598 | ERJ6RED124 | M.RESISTOR CH 1/10W 120K | 1 | [SUPPLIED FROM MBV] |
| R4599 | ERJ6RED114 | M.RESISTOR CH 1/10W 110K | 1 | [SUPPLIED FROM MBV] |
| R4601 | ERJ3GEYJ473 | M.RESISTOR CH 1/16W 47K | 1 | |
| R4603-05 | ERJ3GEYJ473 | M.RESISTOR CH 1/16W 47K | 3 | |
| R4606 | ERJ6GEYF473 | M.RESISTOR CH 1/10W 47K | 1 | |
| R4607 | ERJ3GEYJ473 | M.RESISTOR CH 1/16W 47K | 1 | |
| R4608 | ERDS2TJ103 | C.RESISTOR 1/4W 10K | 1 | |
| R4621 | ERJ6GEYG163 | M.RESISTOR CH 1/10W 16K | 1 | |
| R4623 | ERJ3GEYJ221 | M.RESISTOR CH 1/16W 220 | 1 | |
| R4624 | ERJ3GEYJ103 | M.RESISTOR CH 1/16W 10K | 1 | |
| R4695,96 | ERJ3GEYJ473 | M.RESISTOR CH 1/16W 47K | 2 | |
| R4697 | ERJ6GEYG562 | M.RESISTOR CH 1/10W 5.6K | 1 | |
| R5003 | ERJ6GMYG102 | M.RESISTOR CH 1/10W 1K | 1 | |
| R5004 | ERJ6GMYG271 | M.RESISTOR CH 1/10W 270 | 1 | |
| R5005 | ERJ6GMYG472 | M.RESISTOR CH 1/10W 4.7K | 1 | |
| R5006 | ERJ6GMYJ124 | M.RESISTOR CH 1/10W 120K | 1 | |
| R5007 | ERJ6GMYJ223 | M.RESISTOR CH 1/10W 22K | 1 | |
| R5012 | ERJ6GMYG563 | M.RESISTOR CH 1/10W 56K | 1 | |
| R5013 | ERJ6GMYG123 | M.RESISTOR CH 1/10W 12K | 1 | |
| R5014 | ERJ6GMYG223 | M.RESISTOR CH 1/10W 22K | 1 | |
| R5016,17 | ERJ6GMYG102 | M.RESISTOR CH 1/10W 1K | 2 | |
| R5018 | ERJ6GMYG123 | M.RESISTOR CH 1/10W 12K | 1 | |
| R5019 | ERJ6GMYG682 | M.RESISTOR CH 1/10W 6.8K | 1 | |
| R5020 | ERJ6GMYG102 | M.RESISTOR CH 1/10W 1K | 1 | |
| R5021,22 | ERJ6GMYG681 | M.RESISTOR CH 1/10W 680 | 2 | |
| R5023 | ERJ6GMYG271 | M.RESISTOR CH 1/10W 270 | 1 | |
| R5025 | ERJ6GMYG102 | M.RESISTOR CH 1/10W 1K | 1 | |
| R5027 | ERJ6GMYG122 | M.RESISTOR CH 1/10W 1.2K | 1 | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| R5028,29 | ERJ6GMYG102 | M.RESISTOR CH 1/10W 1K | 2 | |
| R5030 | ERJ6GMYG471 | M.RESISTOR CH 1/10W 470 | 1 | |
| R5031 | ERJ6GMYG102 | M.RESISTOR CH 1/10W 1K | 1 | |
| R5701-04 | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K | 4 | |
| R5705 | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1 | |
| R5706,07 | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K | 2 | |
| R5708 | ERJ6GEYF333 | M.RESISTOR CH 1/10W 33K | 1 | |
| R5801 | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1 | |
| R5802 | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680 | 1 | |
| R5803 | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1 | |
| R5808 | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0 | 1 | |
| R5810 | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K | 1 | |
| R5811 | ERJ6GEYG273 | M.RESISTOR CH 1/10W 27K | 1 | |
| R5812 | ERJ6GEYG563 | M.RESISTOR CH 1/10W 56K | 1 | |
| R5813 | ERJ6GEYF561 | M.RESISTOR CH 1/10W 560 | 1 | |
| R5814 | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K | 1 | |
| R5815 | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680 | 1 | |
| R5816 | ERJ6GEYG181 | M.RESISTOR CH 1/10W 180 | 1 | |
| R5817 | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100 | 1 | |
| R5818 | ERJ6GEYG242 | M.RESISTOR CH 1/10W 2.4K | 1 | |
| R6001 | ERJ6GMYJ201 | M.RESISTOR CH 1/10W 200 | 1 | |
| R6002 | ERJ6GMYG272 | M.RESISTOR CH 1/10W 2.7K | 1 | |
| R6003-05 | ERJ6GMYG333 | M.RESISTOR CH 1/10W 33K | 3 | |
| R6006,07 | ERJ6GMYG223 | M.RESISTOR CH 1/10W 22K | 2 | |
| R6008 | ERJ6GMYG272 | M.RESISTOR CH 1/10W 2.7K | 1 | |
| R6009 | ERJ6GMYG103 | M.RESISTOR CH 1/10W 10K | 1 | |
| R6010 | ERJ6GMYG272 | M.RESISTOR CH 1/10W 2.7K | 1 | |
| R6011 | ERJ6GMYG102 | M.RESISTOR CH 1/10W 1K | 1 | |
| R6012,13 | ERJ6GMYG101 | M.RESISTOR CH 1/10W 100 | 2 | |
| R6015 | ERJ6GMYG104 | M.RESISTOR CH 1/10W 100K | 1 | |
| R6016 | ERJ6GMYJ683 | M.RESISTOR CH 1/10W 68K | 1 | |
| R6017 | ERDS2TJ103 | C.RESISTOR 1/4W 10K | 1 | |
| R6019 | ERDS2TJ473 | C.RESISTOR 1/4W 47K | 1 | |
| R6020 | ERJ6GMYG104 | M.RESISTOR CH 1/10W 100K | 1 | |
| R6021-23 | ERJ6GMYG101 | M.RESISTOR CH 1/10W 100 | 3 | |
| R6024 | ERJ6GMYG222 | M.RESISTOR CH 1/10W 2.2K | 1 | |
| R6025 | ERJ6GMYG103 | M.RESISTOR CH 1/10W 10K | 1 | |
| R6026 | ERJ6GMYG473 | M.RESISTOR CH 1/10W 47K | 1 | |
| R6027 | ERJ6GMYG102 | M.RESISTOR CH 1/10W 1K | 1 | |
| R6028 | ERJ6GMYG392 | M.RESISTOR CH 1/10W 3.9K | 1 | |
| R6029,30 | ERJ6GMYG272 | M.RESISTOR CH 1/10W 2.7K | 2 | |
| R6031,32 | ERJ6GMYJ221 | M.RESISTOR CH 1/10W 220 | 2 | |
| R6033 | ERJ6GMYG272 | M.RESISTOR CH 1/10W 2.7K | 1 | |
| R6034 | ERJ6GMYG102 | M.RESISTOR CH 1/10W 1K | 1 | |
| R6035,36 | ERJ6GMYJ221 | M.RESISTOR CH 1/10W 220 | 2 | |
| R6037,38 | ERJ6GMYG102 | M.RESISTOR CH 1/10W 1K | 2 | |
| R6039 | ERDS2TJ271 | C.RESISTOR 1/4W 270 | 1 | |
| R6040,41 | ERJ6GMYJ683 | M.RESISTOR CH 1/10W 68K | 2 | |
| R6043 | ERJ6GMYG392 | M.RESISTOR CH 1/10W 3.9K | 1 | |
| R6044 | ERJ6GMYG103 | M.RESISTOR CH 1/10W 10K | 1 | |
| R6046-48 | ERJ6GMYG103 | M.RESISTOR CH 1/10W 10K | 3 | |
| R6049 | ERDS2TJ102 | C.RESISTOR 1/4W 1K | 1 | |
| R6050 | ERJ6GMYG102 | M.RESISTOR CH 1/10W 1K | 1 | |
| R6052 | ERJ6GMYG103 | M.RESISTOR CH 1/10W 10K | 1 | |
| R6054 | ERJ6GMYG472 | M.RESISTOR CH 1/10W 4.7K | 1 | |
| R6055 | ERJ6GMYG183 | M.RESISTOR CH 1/10W 18K | 1 | |
| R6056-58 | ERJ6GMYG102 | M.RESISTOR CH 1/10W 1K | 3 | |
| R6059 | ERJ6GMYG103 | M.RESISTOR CH 1/10W 10K | 1 | |
| R6060 | ERJ6GMYG822 | M.RESISTOR CH 1/10W 8.2K | 1 | |
| R6061 | ERJ6GMYG243 | M.RESISTOR CH 1/10W 24K | 1 | |
| R6062 | ERJ6GMYG103 | M.RESISTOR CH 1/10W 10K | 1 | |
| R6064 | ERJ6GMYG103 | M.RESISTOR CH 1/10W 10K | 1 | |
| R6065 | ERJ6GMYG334 | M.RESISTOR CH 1/10W 330K | 1 | |
| R7301 | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1 | |
| R7302 | ERJ3GEYG472 | M.RESISTOR CH 1/16W 4.7K | 1 | |
| R7303 | ERJ3GEYG152 | M.RESISTOR CH 1/16W 1.5K | 1 | |
| R7308 | ERJ3GEYJ121 | M.RESISTOR CH 1/16W 120 | 1 | |
| R7309,10 | ERJ6GEYF561 | M.RESISTOR CH 1/10W 560 | 2 | |
| R7311 | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220 | 1 | |
| R7312 | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1 | |
| R7313,14 | ERJ3GEYG272 | M.RESISTOR CH 1/16W 2.7K | 2 | |
| R7315 | ERJ3GEYJ114 | M.RESISTOR CH 1/16W 110K | 1 | |
| R7316 | ERJ3GEYJ223 | M.RESISTOR CH 1/16W 22K | 1 | |
| R7317 | ERJ3GEYJ473 | M.RESISTOR CH 1/16W 47K | 1 | |
| R7320 | ERJ3GEYJ104 | M.RESISTOR CH 1/16W 100K | 1 | |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| R7321-23 | ERJ3GEYJ333 | M. RESISTOR CH 1/16W 33K | 3 | |
| R7324 | ERJ3GEYJ103 | M. RESISTOR CH 1/16W 10K | 1 | |
| R7325 | ERJ3GEYG102 | M. RESISTOR CH 1/16W 1K | 1 | |
| R7326 | ERJ3GEYJ104 | M. RESISTOR CH 1/16W 100K | 1 | |
| R7327-29 | ERJ3GEYJ333 | M. RESISTOR CH 1/16W 33K | 3 | |
| R7330 | ERJ3GEY0R00 | M. RESISTOR CH 1/16W 0 | 1 | |
| R7332 | ERJ3GEYG102 | M. RESISTOR CH 1/16W 1K | 1 | |
| R7333 | ERJ3GEYJ104 | M. RESISTOR CH 1/16W 100K | 1 | |
| R7334-36 | ERJ3GEYJ333 | M. RESISTOR CH 1/16W 33K | 3 | |
| R7337 | ERJ3GEY0R00 | M. RESISTOR CH 1/16W 0 | 1 | |
| R7339 | ERJ3GEYG102 | M. RESISTOR CH 1/16W 1K | 1 | |
| R7341-43 | ERJ6GEYJ471 | M. RESISTOR CH 1/10W 470 | 3 | |
| R7346 | ERJ3GEYJ473 | M. RESISTOR CH 1/16W 47K | 1 | |
| R7350 | ERJ3GEYG102 | M. RESISTOR CH 1/16W 1K | 1 | |
| R7351 | ERJ3GEYJ473 | M. RESISTOR CH 1/16W 47K | 1 | |
| R7352-56 | ERJ3GEYJ103 | M. RESISTOR CH 1/16W 10K | 5 | |
| R7357 | ERJ3GEYJ473 | M. RESISTOR CH 1/16W 47K | 1 | |
| R7362 | ERJ3GEYG682 | M. RESISTOR CH 1/16W 6.8K | 1 | |
| R7366 | ERJ3GEYG102 | M. RESISTOR CH 1/16W 1K | 1 | |
| R7367 | ERJ3GEYJ103 | M. RESISTOR CH 1/16W 10K | 1 | |
| R7368, 69 | ERJ3GEYG102 | M. RESISTOR CH 1/16W 1K | 2 | |
| R7370 | ERJ3GEYJ103 | M. RESISTOR CH 1/16W 10K | 1 | |
| R7371 | ERJ3GEYG102 | M. RESISTOR CH 1/16W 1K | 1 | |
| R7376, 77 | ERJ3GEYJ104 | M. RESISTOR CH 1/16W 100K | 2 | |
| R7378 | ERJ3GEYG152 | M. RESISTOR CH 1/16W 1.5K | 1 | |
| R7379 | ERJ3GEY0R00 | M. RESISTOR CH 1/16W 0 | 1 | |
| R7381 | ERJ3GEY0R00 | M. RESISTOR CH 1/16W 0 | 1 | |
| R7383 | ERJ3GEY0R00 | M. RESISTOR CH 1/16W 0 | 1 | |
| R7601 | ERJ6GMYG151 | M. RESISTOR CH 1/10W 150 | 1 | |
| R7602, 03 | ERJ6GMYJ683 | M. RESISTOR CH 1/10W 68K | 2 | |
| R7604 | ERJ6GMYG151 | M. RESISTOR CH 1/10W 150 | 1 | |
| R7605-07 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 3 | |
| R7609 | ERDS2TJ330 | C. RESISTOR 1/4W 33 | 1 | |
| R7612 | ERG2SJ331 | M. RESISTOR 2W 330 | 1 | |
| R7614 | ERJ6GMYG561 | M. RESISTOR CH 1/10W 560 | 1 | |
| R7615 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R7616 | ERG2SJ331 | M. RESISTOR 2W 330 | 1 | |
| R7618 | ERJ6GMYG472 | M. RESISTOR CH 1/10W 4.7K | 1 | |
| R7619 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R7702 | ERJ6GMYG182 | M. RESISTOR CH 1/10W 1.8K | 1 | |
| R7703, 04 | ERJ6GMYG101 | M. RESISTOR CH 1/10W 100 | 2 | |
| R7705 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R7707 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R7708 | ERJ6GMYG272 | M. RESISTOR CH 1/10W 2.7K | 1 | |
| R7709 | ERJ6GMZOR00 | M. RESISTOR CH 1/10W 0 | 1 | |
| R7711 | ERJ6GMYG272 | M. RESISTOR CH 1/10W 2.7K | 1 | |
| R7712, 13 | ERJ6GMZOR00 | M. RESISTOR CH 1/10W 0 | 2 | |
| R7714-19 | ERJ6GMYG101 | M. RESISTOR CH 1/10W 100 | 6 | |
| R7720, 21 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 2 | |
| R7722 | ERJ6GMYG472 | M. RESISTOR CH 1/10W 4.7K | 1 | |
| R7723 | ERJ6GMYG152 | M. RESISTOR CH 1/10W 1.5K | 1 | |
| R7725 | ERJ6GMYG332 | M. RESISTOR CH 1/10W 3.3K | 1 | |
| R7726 | ERJ6GMYG273 | M. RESISTOR CH 1/10W 27K | 1 | |
| R7727 | ERJ6GMYG472 | M. RESISTOR CH 1/10W 4.7K | 1 | |
| R7729 | ERJ6GMYG472 | M. RESISTOR CH 1/10W 4.7K | 1 | |
| R7730 | ERJ6GMYG101 | M. RESISTOR CH 1/10W 100 | 1 | |
| R7731 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R7732 | ERJ6GMYG472 | M. RESISTOR CH 1/10W 4.7K | 1 | |
| R7733 | ERJ6GMYG104 | M. RESISTOR CH 1/10W 100K | 1 | |
| R7734 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R7735 | ERJ6GMYG104 | M. RESISTOR CH 1/10W 100K | 1 | |
| R7736 | ERJ6GMYG152 | M. RESISTOR CH 1/10W 1.5K | 1 | |
| R7737, 38 | ERJ6GMYJ221 | M. RESISTOR CH 1/10W 220 | 2 | |
| R7739 | ERJ6GMYJ112 | M. RESISTOR CH 1/10W 1.1K | 1 | |
| R7740 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R7741 | ERJ6GMYG472 | M. RESISTOR CH 1/10W 4.7K | 1 | |
| R7742 | ERJ6GMYG682 | M. RESISTOR CH 1/10W 6.8K | 1 | |
| R7743 | ERJ6GMYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R7745 | ERJ6GMYG224 | M. RESISTOR CH 1/10W 220K | 1 | |
| R7747 | ERJ6GMYG472 | M. RESISTOR CH 1/10W 4.7K | 1 | |
| R7748 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R7750 | ERJ6GMYG561 | M. RESISTOR CH 1/10W 560 | 1 | |
| R7751 | ERJ6GMYG392 | M. RESISTOR CH 1/10W 3.9K | 1 | |
| R7753 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R7754 | ERJ6GMYG122 | M. RESISTOR CH 1/10W 1.2K | 1 | |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| R7756 | ERJ6GMYG473 | M. RESISTOR CH 1/10W 47K | 1 | |
| R7757 | ERJ6GMYG101 | M. RESISTOR CH 1/10W 100 | 1 | |
| R7758 | ERJ6GMYG273 | M. RESISTOR CH 1/10W 27K | 1 | |
| R7761 | ERJ6GMYG272 | M. RESISTOR CH 1/10W 2.7K | 1 | |
| R7764 | ERJ6GMYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| | | | | |
| RX7701 | EXBF9E103J | RESISTOR-RESISTOR | 1 | |
| | | | | |
| S6001 | VES0709 | SWITCH | 1 | |
| | | | | |
| T0703 | EQV5EC071A | TRANSFORMER | 1 | |
| T0704 | EQV5EC072A | TRANSFORMER | 1 | |
| T4001 | EIQ7QF012Q | TRANSFORMER | 1 | |
| T4002 | EIQ7QF013Q | TRANSFORMER | 1 | |
| | | | | |
| ⚠ TU7601 | ENG47232GD | TUNER | 1 | [SUPPLIED FROM MBV] |
| | | | | |
| VR0701 | EVNGBAA00B24 | V. RESISTOR 20K | 1 | |
| VR803 | EVMEASA00B14 | V. RESISTOR 10K | 1 | |
| VR2001 | EVNGYAA03B54 | V. RESISTOR 50K | 1 | |
| VR3001, 02 | EVNGYAA03B23 | V. RESISTOR 2K | 2 | |
| VR3012, 13 | EVNGYAA03B52 | V. RESISTOR 500 | 2 | |
| VR3014 | EVNGYAA03B54 | V. RESISTOR 50K | 1 | |
| VR4001 | EVNGYAA03B15 | V. RESISTOR 100K | 1 | |
| VR4501 | EVMEGSA00BS3 | V. RESISTOR 6.8K | 1 | |
| VR4509 | EVMEGSA00B53 | V. RESISTOR 5K | 1 | |
| VR4550 | EVMEGSA00B14 | V. RESISTOR 10K | 1 | |
| | | | | |
| X301 | VSX0162 | CRYSTAL OSCILLATOR | 1 | |
| X0701 | VLF1178 | FILTER | 1 | |
| X0703 | EFCS5R5MW5 | FILTER | 1 | |
| X0704 | VLF1035 | FILTER | 1 | |
| X6001 | VSX0583 | CRYSTAL OSCILLATOR | 1 | |
| X7302 | VSX0683 | CRYSTAL OSCILLATOR | 1 | |
| X7303 | EFOGC4004T4 | CRYSTAL OSCILLATOR | 1 | |
| X7702 | VSX0353 | CRYSTAL OSCILLATOR | 1 | |
| | | | | |
| | | MISCELLANEOUS | | |
| | VMP4894 | SUPPORT ANGLE | 2 | |
| | VMD2329 | PHOTO TRANSISTOR HOLDER | 2 | |
| | VMD2328 | REEL GUIDE | 1 | |
| | VMD2330 | LED HOLDER | 1 | |
| | VMT0332 | SPACER | 2 | FOR NICAM DECODER C. B. A. |
| | VSC3553 | SHIELD COVER (MAIN) | 1 | FOR NICAM DECODER C. B. A. |
| | VSC3555 | SHIELD COVER (BOTTOM) | 1 | FOR NICAM DECODER C. B. A. |
| | VMT0784 | SPACER | 1 | FOR NICAM DECODER C. B. A. |
| | VMP4471 | TV DEMODULATOR ANGLE | 1 | FOR TV DEMODULATOR C. B. A. |
| | | | | |
| ■ | VEP03D34C | INPUT/OUTPUT C. B. A. | | [SUPPLIED FROM MBV] |
| | | | | (RTL) |
| | | | | NV-HD660EG/EGH/EC |
| C3902 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C3903 | ECEA1CKA470 | E. CAPACITOR 16V 47U | 1 | |
| C3905 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C3906 | ECEA0JKA331 | E. CAPACITOR 6.3V 330U | 1 | |
| C3907, 08 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 2 | |
| C3917 | ECEA1CKA470 | E. CAPACITOR 16V 47U | 1 | |
| C3918 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C3919 | ECEA1CKA470 | E. CAPACITOR 16V 47U | 1 | |
| C3920 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C3923 | ECEA1CKA470 | E. CAPACITOR 16V 47U | 1 | |
| C3924, 25 | ECUM1C105ZFN | C. CAPACITOR CH 16V 1U | 2 | |
| C4901-08 | ECUM1H471JCN | C. CAPACITOR CH 50V 470P | 8 | |
| C4909 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C4910, 11 | ECUM1H471JCN | C. CAPACITOR CH 50V 470P | 2 | |
| C4913 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 1 | |
| C4914 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C4915 | ECEA1CKA470 | E. CAPACITOR 16V 47U | 1 | |
| | | | | |
| D3901, 02 | MA4056-M | DIODE | 2 | |
| D3903 | MA4120-M | DIODE | 1 | |
| D3905 | MA151WK | DIODE | 1 | |
| | | | | |
| IC3902 | MC14053BF | IC | 1 | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| IC3903 | MC14052BF | IC | 1 | |
| IC3906 | MC14051BF | IC | 1 | |
| IC4901 | MC14052BF | IC | 1 | |
| IC4902, 03 | NJM4558M | IC | 2 | |
| IC4904 | MC14052BF | IC | 1 | |
| | | | | |
| JK3901 | VEJ1699 | JACK | 1 | [SUPPLIED FROM MBV] |
| JK3902, 03 | VJS1470 | JACK | 2 | |
| | | | | |
| K4906 | ERJ6GEY0R00 | M. RESISTOR CH 1/10W 0 | 1 | |
| | | | | |
| L3903, 04 | VLQ0599J330 | COIL 33UH | 2 | |
| L4901, 02 | VLQ0599J471 | COIL 470UH | 2 | |
| L4903 | VLQ0599J101 | COIL 100UH | 1 | |
| L4904 | VLQ0599J330 | COIL 33UH | 1 | |
| | | | | |
| P3901 | VJS3537B006G | CONNECTOR (FEMALE) 6P | 1 | |
| | | | | |
| PS3901 | VJS3042B010W | CONNECTOR (FEMALE) 10P | 1 | |
| PS3902, 03 | VJS3042F007W | CONNECTOR (FEMALE) 7P | 2 | |
| PS3904 | VJS3042F013W | CONNECTOR (FEMALE) 13P | 1 | |
| | | | | |
| Q3901, 02 | MSD601 | TRANSISTOR | 2 | |
| Q3903, 04 | MSB709 | TRANSISTOR | 2 | |
| Q3909 | MSD1328 | TRANSISTOR | 1 | |
| Q3910 | MSB709 | TRANSISTOR | 1 | |
| | | | | |
| QR3901 | MUN2212 | TRANSISTOR-RESISTOR | 1 | |
| QR3903 | MUN2212 | TRANSISTOR-RESISTOR | 1 | |
| QR3904 | MUN2111 | TRANSISTOR-RESISTOR | 1 | |
| | | | | |
| R3901, 02 | ERJ6GEYG153 | M. RESISTOR CH 1/10W 15K | 2 | |
| R3903 | ERJ6GEYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R3904 | ERJ6GEYF472 | M. RESISTOR CH 1/10W 4.7K | 1 | |
| R3906 | ERDS2TJ121 | C. RESISTOR 1/4W 120 | 1 | |
| R3907, 08 | ERJ6GEYG332 | M. RESISTOR CH 1/10W 3.3K | 2 | |
| R3910-12 | ERJ6GEYG103 | M. RESISTOR CH 1/10W 10K | 3 | |
| R3919 | ERJ6GEYG683 | M. RESISTOR CH 1/10W 68K | 1 | |
| R3920 | ERJ6GEYF473 | M. RESISTOR CH 1/10W 47K | 1 | |
| R3921 | ERJ6GEYG683 | M. RESISTOR CH 1/10W 68K | 1 | |
| R3922 | ERJ6GEYF473 | M. RESISTOR CH 1/10W 47K | 1 | |
| R3923, 24 | ERJ6GEYG331 | M. RESISTOR CH 1/10W 330 | 2 | |
| R3925, 26 | ERJ6GEYG121 | M. RESISTOR CH 1/10W 120 | 2 | |
| R3928, 29 | ERJ6GEYG121 | M. RESISTOR CH 1/10W 120 | 2 | |
| R3930 | ERJ6GEYG750 | M. RESISTOR CH 1/10W 75 | 1 | |
| R3932-34 | ERJ6GEYG750 | M. RESISTOR CH 1/10W 75 | 3 | |
| R3935 | ERJ6GEY0R00 | M. RESISTOR CH 1/10W 0 | 1 | |
| R3937 | ERJ6GEYF822 | M. RESISTOR CH 1/10W 8.2K | 1 | |
| R3938 | ERJ6GEYF472 | M. RESISTOR CH 1/10W 4.7K | 1 | |
| R3946 | ERJ6GEYG223 | M. RESISTOR CH 1/10W 22K | 1 | |
| R3947 | ERDS2TJ561 | C. RESISTOR 1/4W 560 | 1 | |
| R3949, 50 | ERJ6GEYG103 | M. RESISTOR CH 1/10W 10K | 2 | |
| R3953 | ERJ6GEYF561 | M. RESISTOR CH 1/10W 560 | 1 | |
| R3954 | ERJ6GEYG104 | M. RESISTOR CH 1/10W 100K | 1 | |
| R4901 | ERJ6GEYF473 | M. RESISTOR CH 1/10W 47K | 1 | |
| R4902 | ERJ6GEYG474 | M. RESISTOR CH 1/10W 470K | 1 | |
| R4903 | ERJ6GEY0R00 | M. RESISTOR CH 1/10W 0 | 1 | |
| R4904 | ERJ6GEYF473 | M. RESISTOR CH 1/10W 47K | 1 | |
| R4905 | ERJ6GEY0R00 | M. RESISTOR CH 1/10W 0 | 1 | |
| R4906-13 | ERJ6GEYG101 | M. RESISTOR CH 1/10W 100 | 8 | |
| R4914, 15 | ERJ6GEYJ471 | M. RESISTOR CH 1/10W 470 | 2 | |
| R4916 | ERJ6GEYG752 | M. RESISTOR CH 1/10W 7.5K | 1 | |
| R4917, 18 | ERJ6GEYG103 | M. RESISTOR CH 1/10W 10K | 2 | |
| R4919 | ERJ6GEYG683 | M. RESISTOR CH 1/10W 68K | 1 | |
| R4920 | ERJ6GEYG223 | M. RESISTOR CH 1/10W 22K | 1 | |
| R4921 | ERJ6GEYG683 | M. RESISTOR CH 1/10W 68K | 1 | |
| R4922 | ERJ6GEYG223 | M. RESISTOR CH 1/10W 22K | 1 | |
| R4924 | ERJ6GEYG752 | M. RESISTOR CH 1/10W 7.5K | 1 | |
| R4925, 26 | ERJ6GEYG103 | M. RESISTOR CH 1/10W 10K | 2 | |
| R4927, 28 | ERJ6GEYG153 | M. RESISTOR CH 1/10W 15K | 2 | |
| R4929 | ERJ6GEYG474 | M. RESISTOR CH 1/10W 470K | 1 | |
| R4930, 31 | ERJ6GEYF473 | M. RESISTOR CH 1/10W 47K | 2 | |
| R4932, 33 | ERJ6GEY0R00 | M. RESISTOR CH 1/10W 0 | 2 | |
| R4934, 35 | ERJ6GEYG221 | M. RESISTOR CH 1/10W 220 | 2 | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| S3902 | ESD172311 | SWITCH | 1 | |
| | | | | |
| | | MISCELLANEOUS | | |
| | XTV3+8GFZ | SCREW | 4 | |
| | | | | |
| | | | | |
| ■ | VEP03D34D | INPUT/OUTPUT C.B.A. | | [SUPPLIED FROM MBV] |
| | | | | (RTL) |
| | | | | NV-HD660B |
| C3902 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C3903 | ECEA1CKA470 | E. CAPACITOR 16V 47U | 1 | |
| C3905 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C3906 | ECEA0JKA331 | E. CAPACITOR 6.3V 330U | 1 | |
| C3907, 08 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 2 | |
| C3917 | ECEA1CKA470 | E. CAPACITOR 16V 47U | 1 | |
| C3918 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C3919 | ECEA1CKA470 | E. CAPACITOR 16V 47U | 1 | |
| C3920 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C3923 | ECEA1CKA470 | E. CAPACITOR 16V 47U | 1 | |
| C3924, 25 | ECUM1C105ZFN | C. CAPACITOR CH 16V 1U | 2 | |
| C4901-08 | ECUM1H471JCN | C. CAPACITOR CH 50V 470P | 8 | |
| C4909 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C4910, 11 | ECUM1H471JCN | C. CAPACITOR CH 50V 470P | 2 | |
| C4913 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 1 | |
| C4914 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C4915 | ECEA1CKA470 | E. CAPACITOR 16V 47U | 1 | |
| | | | | |
| D3901, 02 | MA4056-M | DIODE | 2 | |
| D3903 | MA4120-M | DIODE | 1 | |
| D3905 | MA151WK | DIODE | 1 | |
| | | | | |
| IC3902 | MC14053BF | IC | 1 | |
| IC3903 | MC14052BF | IC | 1 | |
| IC3906 | MC14051BF | IC | 1 | |
| IC4901 | MC14052BF | IC | 1 | |
| IC4902, 03 | NJM4558M | IC | 2 | |
| IC4904 | MC14052BF | IC | 1 | |
| | | | | |
| JK3901 | VEJ1700 | JACK | 1 | [SUPPLIED FROM MBV] |
| JK3902, 03 | VJS1470 | JACK | 2 | |
| | | | | |
| K4906 | ERJ6GEY0R00 | M. RESISTOR CH 1/10W 0 | 1 | |
| | | | | |
| L3903, 04 | VLQ0599J330 | COIL 33UH | 2 | |
| L4901, 02 | VLQ0599J471 | COIL 470UH | 2 | |
| L4903 | VLQ0599J101 | COIL 100UH | 1 | |
| L4904 | VLQ0599J330 | COIL 33UH | 1 | |
| | | | | |
| P3901 | VJS3537B006G | CONNECTOR (FEMALE) 6P | 1 | |
| | | | | |
| PS3901 | VJS3042B010W | CONNECTOR (FEMALE) 10P | 1 | |
| PS3902, 03 | VJS3042F007W | CONNECTOR (FEMALE) 7P | 2 | |
| PS3904 | VJS3042F013W | CONNECTOR (FEMALE) 13P | 1 | |
| | | | | |
| Q3901, 02 | MSD601 | TRANSISTOR | 2 | |
| Q3903, 04 | MSB709 | TRANSISTOR | 2 | |
| Q3909 | MSD1328 | TRANSISTOR | 1 | |
| Q3910 | MSB709 | TRANSISTOR | 1 | |
| | | | | |
| QR3901 | MUN2212 | TRANSISTOR-RESISTOR | 1 | |
| QR3903 | MUN2212 | TRANSISTOR-RESISTOR | 1 | |
| QR3904 | MUN2111 | TRANSISTOR-RESISTOR | 1 | |
| | | | | |
| R3901, 02 | ERJ6GEYG153 | M. RESISTOR CH 1/10W 15K | 2 | |
| R3903 | ERJ6GEYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R3904 | ERJ6GEYF472 | M. RESISTOR CH 1/10W 4.7K | 1 | |
| R3906 | ERDS2TJ121 | C. RESISTOR 1/4W 120 | 1 | |
| R3907, 08 | ERJ6GEYG332 | M. RESISTOR CH 1/10W 3.3K | 2 | |
| R3910-12 | ERJ6GEYG103 | M. RESISTOR CH 1/10W 10K | 3 | |
| R3919 | ERJ6GEYG683 | M. RESISTOR CH 1/10W 68K | 1 | |
| R3920 | ERJ6GEYF473 | M. RESISTOR CH 1/10W 47K | 1 | |
| R3921 | ERJ6GEYG683 | M. RESISTOR CH 1/10W 68K | 1 | |
| R3922 | ERJ6GEYF473 | M. RESISTOR CH 1/10W 47K | 1 | |
| R3923, 24 | ERJ6GEYG331 | M. RESISTOR CH 1/10W 330 | 2 | |
| R3925, 26 | ERJ6GEYG121 | M. RESISTOR CH 1/10W 120 | 2 | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| R3928, 29 | ERJ6GEYG121 | M. RESISTOR CH 1/10W 120 | 2 | |
| R3930 | ERJ6GEYG750 | M. RESISTOR CH 1/10W 75 | 1 | |
| R3932-34 | ERJ6GEYG750 | M. RESISTOR CH 1/10W 75 | 3 | |
| R3935 | ERJ6GEY0R00 | M. RESISTOR CH 1/10W 0 | 1 | |
| R3937 | ERJ6GEYF822 | M. RESISTOR CH 1/10W 8.2K | 1 | |
| R3938 | ERJ6GEYF472 | M. RESISTOR CH 1/10W 4.7K | 1 | |
| R3946 | ERJ6GEYG223 | M. RESISTOR CH 1/10W 22K | 1 | |
| R3947 | ERDS2TJ561 | C. RESISTOR 1/4W 560 | 1 | |
| R3949, 50 | ERJ6GEYG103 | M. RESISTOR CH 1/10W 10K | 2 | |
| R3953 | ERJ6GEYF561 | M. RESISTOR CH 1/10W 560 | 1 | |
| R3954 | ERJ6GEYG104 | M. RESISTOR CH 1/10W 100K | 1 | |
| R4901 | ERJ6GEYF473 | M. RESISTOR CH 1/10W 47K | 1 | |
| R4902 | ERJ6GEYG474 | M. RESISTOR CH 1/10W 470K | 1 | |
| R4903 | ERJ6GEY0R00 | M. RESISTOR CH 1/10W 0 | 1 | |
| R4904 | ERJ6GEYF473 | M. RESISTOR CH 1/10W 47K | 1 | |
| R4905 | ERJ6GEY0R00 | M. RESISTOR CH 1/10W 0 | 1 | |
| R4906-13 | ERJ6GEYG101 | M. RESISTOR CH 1/10W 100 | 8 | |
| R4914, 15 | ERJ6GEYJ471 | M. RESISTOR CH 1/10W 470 | 2 | |
| R4916 | ERJ6GEYG752 | M. RESISTOR CH 1/10W 7.5K | 1 | |
| R4917, 18 | ERJ6GEYG103 | M. RESISTOR CH 1/10W 10K | 2 | |
| R4919 | ERJ6GEYG683 | M. RESISTOR CH 1/10W 68K | 1 | |
| R4920 | ERJ6GEYG223 | M. RESISTOR CH 1/10W 22K | 1 | |
| R4921 | ERJ6GEYG683 | M. RESISTOR CH 1/10W 68K | 1 | |
| R4922 | ERJ6GEYG223 | M. RESISTOR CH 1/10W 22K | 1 | |
| R4924 | ERJ6GEYG752 | M. RESISTOR CH 1/10W 7.5K | 1 | |
| R4925, 26 | ERJ6GEYG103 | M. RESISTOR CH 1/10W 10K | 2 | |
| R4927, 28 | ERJ6GEYG153 | M. RESISTOR CH 1/10W 15K | 2 | |
| R4929 | ERJ6GEYG474 | M. RESISTOR CH 1/10W 470K | 1 | |
| R4930, 31 | ERJ6GEYF473 | M. RESISTOR CH 1/10W 47K | 2 | |
| R4932, 33 | ERJ6GEY0R00 | M. RESISTOR CH 1/10W 0 | 2 | |
| R4934, 35 | ERJ6GEYG221 | M. RESISTOR CH 1/10W 220 | 2 | |
| | | | | |
| S3902 | ESD172311 | SWITCH | 1 | |
| | | | | |
| | | MISCELLANEOUS | | |
| | XTV3+8GFZ | SCREW | 4 | |
| | | | | |
| | | | | |
| ■ | VEP05329A | HEAD AMP C.B.A. | | [SUPPLIED FROM MBV] |
| | | | | (RTL) |
| | | | | |
| C503 | ECUM1C474ZFN | C. CAPACITOR CH 16V 0.47U | 1 | |
| C506 | ECUM1C474ZFN | C. CAPACITOR CH 16V 0.47U | 1 | |
| C507 | ECUM1H102KBN | C. CAPACITOR CH 50V 1000P | 1 | |
| C510 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C511 | ECEA0JKA221 | E. CAPACITOR 6.3V 220U | 1 | |
| C512, 13 | ECUM1C105ZFN | C. CAPACITOR CH 16V 1U | 2 | |
| C514 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C515 | ECUM1H102KBN | C. CAPACITOR CH 50V 1000P | 1 | |
| C516 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C517, 18 | ECUM1H102KBN | C. CAPACITOR CH 50V 1000P | 2 | |
| C519 | ECEA0JKA470 | E. CAPACITOR 6.3V 47U | 1 | |
| | | | | |
| D501, 02 | 1SS254 | DIODE | 2 | |
| | | | | |
| IC501 | STV5728 | IC | 1 | [SUPPLIED FROM MBV] |
| | | | | |
| K501-06 | ERJ6GEY0R00 | M. RESISTOR CH 1/10W 0 | 6 | |
| | | | | |
| L502, 03 | VLQ0599J330 | COIL 33UH | 2 | |
| | | | | |
| P501 | VJS3537B020G | CONNECTOR (FEMALE) 20P | 1 | |
| P502 | VJS2603 | CONNECTOR (FEMALE) | 1 | |
| | | | | |
| Q503, 04 | MSD601 | TRANSISTOR | 2 | |
| | | | | |
| QR501, 02 | MUN2213 | TRANSISTOR-RESISTOR | 2 | |
| | | | | |
| R501 | ERJ6GEYJ100 | M. RESISTOR CH 1/10W 10 | 1 | |
| R502 | ERJ6GEYG621 | M. RESISTOR CH 1/10W 620 | 1 | |
| R503 | ERJ6GEYJ100 | M. RESISTOR CH 1/10W 10 | 1 | |
| R504 | ERJ6GEYG621 | M. RESISTOR CH 1/10W 620 | 1 | |
| R510 | ERJ6GEYG183 | M. RESISTOR CH 1/10W 18K | 1 | |
| R511 | ERJ6GEYG182 | M. RESISTOR CH 1/10W 1.8K | 1 | |
| R512 | ERJ6GEYG621 | M. RESISTOR CH 1/10W 620 | 1 | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| R513 | ERJ6GEYJ224 | M. RESISTOR CH 1/10W 220K | 1 | |
| R514 | ERJ6GEYG223 | M. RESISTOR CH 1/10W 22K | 1 | |
| R515 | ERJ6GEYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R516 | ERJ6GEYG223 | M. RESISTOR CH 1/10W 22K | 1 | |
| R517 | ERJ6GEYF333 | M. RESISTOR CH 1/10W 33K | 1 | |
| R518 | ERJ6GEYG272 | M. RESISTOR CH 1/10W 2.7K | 1 | |
| R519 | ERJ6GEYG183 | M. RESISTOR CH 1/10W 18K | 1 | |
| R520, 21 | ERJ6GEYG102 | M. RESISTOR CH 1/10W 1K | 2 | |
| R522 | ERJ6GEYG122 | M. RESISTOR CH 1/10W 1.2K | 1 | |
| R523 | ERJ6GEYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| | | | | |
| | | MISCELLANEOUS | | |
| | VSC3478 | SHIELD COVER (MAIN) | 1 | |
| | VSC3714 | SHIELD COVER (TOP) | 1 | |
| | VSC3715 | SHIELD COVER (BOTTOM) | 1 | |
| | | | | |
| | | | | |
| ■ | VEP07935A | TIMER C.B.A. | | [SUPPLIED FROM MBV] |
| | | | | (RTL) |
| | | | | NV-HD660EG |
| C7501 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C7502 | VCE0073 | E. CAPACITOR | 1 | |
| C7503 | ECA0JM221 | E. CAPACITOR 6.3V 220U | 1 | |
| C7504 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C7505 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C7506 | ECUM1H560JCN | C. CAPACITOR CH 50V 56P | 1 | |
| C7507 | ECUM1H270JCN | C. CAPACITOR CH 50V 27P | 1 | |
| C7508 | ECUM1H220JCN | C. CAPACITOR CH 50V 22P | 1 | |
| C7509 | ECEA1HKA100 | E. CAPACITOR 50V 10U | 1 | |
| C7510-12 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 3 | |
| C7513 | ECUM1H221JCN | C. CAPACITOR CH 50V 220P | 1 | |
| C7515, 16 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 2 | |
| C7517, 18 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 2 | |
| C7519 | ECUM1H101JCN | C. CAPACITOR CH 50V 100P | 1 | |
| C7520 | ECEA0JKA470 | E. CAPACITOR 6.3V 47U | 1 | |
| C7521, 22 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 2 | |
| C7523 | ECEA0JKA330 | E. CAPACITOR 6.3V 33U | 1 | |
| C7524 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C7525, 26 | ECEA1EKA4R7 | E. CAPACITOR 25V 4.7U | 2 | |
| C7527 | ECUX1H223KBN | C. CAPACITOR CH 50V 0.022U | 1 | |
| C7528, 29 | ECUM1H473ZFN | C. CAPACITOR CH 50V 0.047U | 2 | |
| | | | | |
| D7501 | MA723 | DIODE | 1 | |
| D7502 | MA4220 | DIODE | 1 | |
| D7503-05 | 1SS254 | DIODE | 3 | |
| D7507 | 1SS254 | DIODE | 1 | |
| D7511, 12 | 1SS254 | DIODE | 2 | |
| D7514 | 1SS254 | DIODE | 1 | |
| D7519 | 1SS254 | DIODE | 1 | |
| D7527-40 | 1SS254 | DIODE | 14 | |
| D7541, 42 | SLR932AVA | DIODE | 2 | [SUPPLIED FROM MBV] |
| D7543 | HLMK-D215 | DIODE | 1 | |
| | | | | |
| DP7501 | VSL0467-B | DISPLAY TUBE | 1 | [SUPPLIED FROM MBV] |
| | | | | |
| IC7501 | S80743AL | IC | 1 | |
| IC7502 | PST7023 | IC | 1 | |
| IC7503 | M37507V6AF | IC | 1 | [SUPPLIED FROM MBV] |
| IC7504 | BA6810F | IC | 1 | |
| | | | | |
| IR7501 | RPM675CBRX10 | IR RECEIVER UNIT | 1 | |
| | | | | |
| P7502 | VJS3301 | CONNECTOR (FEMALE) | 1 | |
| | | | | |
| PP7501 | VJP3405A011W | CONNECTOR (MALE) 11P | 1 | |
| PP7503 | VJP3405A009W | CONNECTOR (MALE) 9P | 1 | |
| | | | | |
| PS7501 | VJS3673B025G | CONNECTOR (FEMALE) 25P | 1 | |
| PS7502 | VJS3673F014G | CONNECTOR (FEMALE) 14P | 1 | [SUPPLIED FROM MBV] |
| | | | | |
| Q7501 | MSB709 | TRANSISTOR | 1 | |
| | | | | |
| QR7501 | MUN2112 | TRANSISTOR-RESISTOR | 1 | |
| QR7502-05 | MUN2113 | TRANSISTOR-RESISTOR | 4 | |
| QR7506-08 | MUN2111 | TRANSISTOR-RESISTOR | 3 | |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| QR7509, 10 | MUN2112 | TRANSISTOR-RESISTOR | 2 | |
| QR7511 | MUN2111 | TRANSISTOR-RESISTOR | 1 | |
| | | | | |
| R7501 | ERJ6GEYG181 | M. RESISTOR CH 1/10W 180 | 1 | |
| R7502 | ERDS2TO | C. RESISTOR 1/4W 0 | 1 | |
| R7503, 04 | ERJ6GEYG132 | M. RESISTOR CH 1/10W 1.3K | 2 | |
| R7505 | ERJ6GEYG331 | M. RESISTOR CH 1/10W 330 | 1 | |
| R7506 | ERJ6GEYJ224 | M. RESISTOR CH 1/10W 220K | 1 | |
| R7507, 08 | ERJ6GEYG103 | M. RESISTOR CH 1/10W 10K | 2 | |
| R7509 | ERJ6GEYG221 | M. RESISTOR CH 1/10W 220 | 1 | |
| R7511 | ERJ6GEYG101 | M. RESISTOR CH 1/10W 100 | 1 | |
| R7512 | ERJ6GEYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R7513-15 | ERJ6GEYG221 | M. RESISTOR CH 1/10W 220 | 3 | |
| R7516 | ERJ6GEYG332 | M. RESISTOR CH 1/10W 3.3K | 1 | |
| R7517 | ERJ6GEYG221 | M. RESISTOR CH 1/10W 220 | 1 | |
| R7518 | ERJ6GEYG332 | M. RESISTOR CH 1/10W 3.3K | 1 | |
| R7519 | ERJ6GEYG221 | M. RESISTOR CH 1/10W 220 | 1 | |
| R7520 | ERJ6GEYF473 | M. RESISTOR CH 1/10W 47K | 1 | |
| R7521, 22 | ERJ6GEYG223 | M. RESISTOR CH 1/10W 22K | 2 | |
| R7523-25 | ERJ6GEYG221 | M. RESISTOR CH 1/10W 220 | 3 | |
| R7526-28 | ERJ6GEYG332 | M. RESISTOR CH 1/10W 3.3K | 3 | |
| R7529 | ERJ6GEYG221 | M. RESISTOR CH 1/10W 220 | 1 | |
| R7530 | ERJ6GEYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R7531 | ERDS2TJ470 | C. RESISTOR 1/4W 47 | 1 | |
| R7532, 33 | ERJ6GEYF473 | M. RESISTOR CH 1/10W 47K | 2 | |
| R7534 | ERJ6GEYG272 | M. RESISTOR CH 1/10W 2.7K | 1 | |
| R7535 | ERJ6GEYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R7536 | ERJ6GEYG223 | M. RESISTOR CH 1/10W 22K | 1 | |
| R7539, 40 | ERJ6GEYG332 | M. RESISTOR CH 1/10W 3.3K | 2 | |
| R7542 | ERJ6GEYG221 | M. RESISTOR CH 1/10W 220 | 1 | |
| | | | | |
| RX7501, 02 | EXBF6E104J | RESISTOR-RESISTOR | 2 | |
| RX7503 | EXBF8E104J | RESISTOR-RESISTOR | 1 | |
| | | | | |
| S7501, 02 | EVQ11409K | SWITCH | 2 | |
| S7504-09 | EVQ11409K | SWITCH | 6 | |
| S7510 | VSQ0822 | JOG/SHUTTLE ENCODER | 1 | |
| S7511 | EVQ11409K | SWITCH | 1 | |
| | | | | |
| VC7501 | ECRHA010A54R | V. CAPACITOR 50K | 1 | |
| | | | | |
| VR7501 | EVNGYAA03B53 | V. RESISTOR 5K | 1 | |
| | | | | |
| X7501 | VSX0608 | CRYSTAL OSCILLATOR | 1 | |
| X7502 | VSX0094 | CRYSTAL OSCILLATOR | 1 | |
| | | | | |
| | | MISCELLANEOUS | | |
| | VMD2035 | JOG/SHUTTLE HOLDER | 1 | |
| | VMD2247 | IR RECEIVER HOLDER | 1 | |
| | VMD1047 | LED HOLDER | 3 | |
| | VJF1139 | FIP HOLDER | 1 | |
| | | | | |
| ■ | VEP07935G | TIMER C.B.A. | | [SUPPLIED FROM MBV] |
| | | | | (RTL) |
| | | | | NV-HD660EGH |
| C7501 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C7502 | VCE0073 | E. CAPACITOR | 1 | |
| C7503 | ECA0JM221 | E. CAPACITOR 6.3V 220U | 1 | |
| C7504 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C7505 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C7506 | ECUM1H560JCN | C. CAPACITOR CH 50V 56P | 1 | |
| C7507 | ECUM1H270JCN | C. CAPACITOR CH 50V 27P | 1 | |
| C7508 | ECUM1H220JCN | C. CAPACITOR CH 50V 22P | 1 | |
| C7509 | ECEA1HKA100 | E. CAPACITOR 50V 10U | 1 | |
| C7510-12 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 3 | |
| C7513 | ECUM1H221JCN | C. CAPACITOR CH 50V 220P | 1 | |
| C7515, 16 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 2 | |
| C7517, 18 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 2 | |
| C7519 | ECUM1H101JCN | C. CAPACITOR CH 50V 100P | 1 | |
| C7520 | ECEA0JKA470 | E. CAPACITOR 6.3V 47U | 1 | |
| C7521, 22 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 2 | |
| C7523 | ECEA0JKA330 | E. CAPACITOR 6.3V 33U | 1 | |
| C7524 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C7525, 26 | ECEA1EKA4R7 | E. CAPACITOR 25V 4.7U | 2 | |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| C7527 | ECUX1H223KBN | C. CAPACITOR CH 50V 0.022U | 1 | |
| C7528, 29 | ECUM1H473ZFN | C. CAPACITOR CH 50V 0.047U | 2 | |
| | | | | |
| D7501 | MA723 | DIODE | 1 | |
| D7502 | MA4220 | DIODE | 1 | |
| D7503-05 | 1SS254 | DIODE | 3 | |
| D7507 | 1SS254 | DIODE | 1 | |
| D7511, 12 | 1SS254 | DIODE | 2 | |
| D7514 | 1SS254 | DIODE | 1 | |
| D7519 | 1SS254 | DIODE | 1 | |
| D7527-40 | 1SS254 | DIODE | 14 | |
| D7541, 42 | SLR932AVA | DIODE | 2 | [SUPPLIED FROM MBV] |
| D7543 | HLMK-D215 | DIODE | 1 | |
| D7545 | 1SS254 | DIODE | 1 | |
| | | | | |
| DP7501 | VSL0467-B | DISPLAY TUBE | 1 | [SUPPLIED FROM MBV] |
| | | | | |
| IC7501 | S80743AL | IC | 1 | |
| IC7502 | PST7023 | IC | 1 | |
| IC7503 | M37507V6AF | IC | 1 | [SUPPLIED FROM MBV] |
| IC7504 | BA6810F | IC | 1 | |
| | | | | |
| IR7501 | RPM675CBRX10 | IR RECEIVER UNIT | 1 | |
| | | | | |
| P7502 | VJS3301 | CONNECTOR (FEMALE) | 1 | |
| | | | | |
| PP7501 | VJP3405A011W | CONNECTOR (MALE) 11P | 1 | |
| PP7503 | VJP3405A009W | CONNECTOR (MALE) 9P | 1 | |
| | | | | |
| PS7501 | VJS3673B025G | CONNECTOR (FEMALE) 25P | 1 | |
| PS7502 | VJS3673F014G | CONNECTOR (FEMALE) 14P | 1 | [SUPPLIED FROM MBV] |
| | | | | |
| Q7501 | MSB709 | TRANSISTOR | 1 | |
| | | | | |
| QR7501 | MUN2112 | TRANSISTOR-RESISTOR | 1 | |
| QR7502-05 | MUN2113 | TRANSISTOR-RESISTOR | 4 | |
| QR7506-08 | MUN2111 | TRANSISTOR-RESISTOR | 3 | |
| QR7509, 10 | MUN2112 | TRANSISTOR-RESISTOR | 2 | |
| QR7511 | MUN2111 | TRANSISTOR-RESISTOR | 1 | |
| | | | | |
| R7501 | ERJ6GEYG181 | M. RESISTOR CH 1/10W 180 | 1 | |
| R7502 | ERDS2TO | C. RESISTOR 1/4W 0 | 1 | |
| R7503, 04 | ERJ6GEYG132 | M. RESISTOR CH 1/10W 1.3K | 2 | |
| R7505 | ERJ6GEYG331 | M. RESISTOR CH 1/10W 330 | 1 | |
| R7506 | ERJ6GEYJ224 | M. RESISTOR CH 1/10W 220K | 1 | |
| R7507, 08 | ERJ6GEYG103 | M. RESISTOR CH 1/10W 10K | 2 | |
| R7509 | ERJ6GEYG221 | M. RESISTOR CH 1/10W 220 | 1 | |
| R7511 | ERJ6GEYG101 | M. RESISTOR CH 1/10W 100 | 1 | |
| R7512 | ERJ6GEYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R7513-15 | ERJ6GEYG221 | M. RESISTOR CH 1/10W 220 | 3 | |
| R7516 | ERJ6GEYG332 | M. RESISTOR CH 1/10W 3.3K | 1 | |
| R7517 | ERJ6GEYG221 | M. RESISTOR CH 1/10W 220 | 1 | |
| R7518 | ERJ6GEYG332 | M. RESISTOR CH 1/10W 3.3K | 1 | |
| R7519 | ERJ6GEYG221 | M. RESISTOR CH 1/10W 220 | 1 | |
| R7520 | ERJ6GEYF473 | M. RESISTOR CH 1/10W 47K | 1 | |
| R7521, 22 | ERJ6GEYG223 | M. RESISTOR CH 1/10W 22K | 2 | |
| R7523-25 | ERJ6GEYG221 | M. RESISTOR CH 1/10W 220 | 3 | |
| R7526-28 | ERJ6GEYG332 | M. RESISTOR CH 1/10W 3.3K | 3 | |
| R7529 | ERJ6GEYG221 | M. RESISTOR CH 1/10W 220 | 1 | |
| R7530 | ERJ6GEYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R7531 | ERDS2TJ470 | C. RESISTOR 1/4W 47 | 1 | |
| R7532, 33 | ERJ6GEYF473 | M. RESISTOR CH 1/10W 47K | 2 | |
| R7534 | ERJ6GEYG272 | M. RESISTOR CH 1/10W 2.7K | 1 | |
| R7535 | ERJ6GEYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R7536 | ERJ6GEYG223 | M. RESISTOR CH 1/10W 22K | 1 | |
| R7539, 40 | ERJ6GEYG332 | M. RESISTOR CH 1/10W 3.3K | 2 | |
| R7542 | ERJ6GEYG221 | M. RESISTOR CH 1/10W 220 | 1 | |
| | | | | |
| RX7501, 02 | EXBF6E104J | RESISTOR-RESISTOR | 2 | |
| RX7503 | EXBF8E104J | RESISTOR-RESISTOR | 1 | |
| | | | | |
| S7501, 02 | EVQ11409K | SWITCH | 2 | |
| S7504-09 | EVQ11409K | SWITCH | 6 | |
| S7510 | VSQ0822 | JOG/SHUTTLE ENCODER | 1 | |
| S7511 | EVQ11409K | SWITCH | 1 | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| VC7501 | ECRHA010A54R | V. CAPACITOR 50K | 1 | |
| VR7501 | EVNCYAA03B53 | V. RESISTOR 5K | 1 | |
| X7501 | VSX0608 | CRYSTAL OSCILLATOR | 1 | |
| X7502 | VSX0094 | CRYSTAL OSCILLATOR | 1 | |
| | | MISCELLANEOUS | | |
| | VMD2035 | JOG/SHUTTLE HOLDER | 1 | |
| | VMD2247 | IR RECEIVER HOLDER | 1 | |
| | VMD1047 | LED HOLDER | 3 | |
| | VJF1139 | FIP HOLDER | 1 | |
| ■ | VEP07935D | TIMER C.B.A. | | [SUPPLIED FROM MBV] |
| | | | | (RTL) |
| | | | | NV-HD660B |
| C7501 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C7502 | VCE0073 | E. CAPACITOR | 1 | |
| C7503 | ECA0JM221 | E. CAPACITOR 6.3V 220U | 1 | |
| C7504 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C7505 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C7506 | ECUM1H560JCN | C. CAPACITOR CH 50V 56P | 1 | |
| C7507 | ECUM1H270JCN | C. CAPACITOR CH 50V 27P | 1 | |
| C7508 | ECUM1H220JCN | C. CAPACITOR CH 50V 22P | 1 | |
| C7509 | ECEA1HKA100 | E. CAPACITOR 50V 10U | 1 | |
| C7510-12 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 3 | |
| C7513 | ECUM1H221JCN | C. CAPACITOR CH 50V 220P | 1 | |
| C7515, 16 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 2 | |
| C7517, 18 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 2 | |
| C7519 | ECUM1H101JCN | C. CAPACITOR CH 50V 100P | 1 | |
| C7520 | ECEA0JKA470 | E. CAPACITOR 6.3V 47U | 1 | |
| C7521, 22 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 2 | |
| C7523 | ECEA0JKA330 | E. CAPACITOR 6.3V 33U | 1 | |
| C7524 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C7525, 26 | ECEA1EKA4R7 | E. CAPACITOR 25V 4.7U | 2 | |
| C7527 | ECUX1H223KBN | C. CAPACITOR CH 50V 0.022U | 1 | |
| C7528, 29 | ECUM1H473ZFN | C. CAPACITOR CH 50V 0.047U | 2 | |
| D7501 | MA723 | DIODE | 1 | |
| D7502 | MA4220 | DIODE | 1 | |
| D7503-08 | 1SS254 | DIODE | 6 | |
| D7511, 12 | 1SS254 | DIODE | 2 | |
| D7514 | 1SS254 | DIODE | 1 | |
| D7519 | 1SS254 | DIODE | 1 | |
| D7527-40 | 1SS254 | DIODE | 14 | |
| D7541, 42 | SLR932AVA | DIODE | 2 | [SUPPLIED FROM MBV] |
| D7543 | HLMK-D215 | DIODE | 1 | |
| DP7501 | VSL0467-B | DISPLAY TUBE | 1 | [SUPPLIED FROM MBV] |
| IC7501 | S80743AL | IC | 1 | |
| IC7502 | PST7023 | IC | 1 | |
| IC7503 | M37507V6AF | IC | 1 | [SUPPLIED FROM MBV] |
| IC7504 | BA6810F | IC | 1 | |
| IR7501 | RPM675CBRX10 | IR RECEIVER UNIT | 1 | |
| P7502 | VJS3301 | CONNECTOR (FEMALE) | 1 | |
| PP7501 | VJP3405A011W | CONNECTOR (MALE) 11P | 1 | |
| PP7503 | VJP3405A009W | CONNECTOR (MALE) 9P | 1 | |
| PS7501 | VJS3673B025G | CONNECTOR (FEMALE) 25P | 1 | |
| PS7502 | VJS3673F014G | CONNECTOR (FEMALE) 14P | 1 | [SUPPLIED FROM MBV] |
| Q7501 | MSB709 | TRANSISTOR | 1 | |
| QR7501 | MUN2112 | TRANSISTOR-RESISTOR | 1 | |
| QR7502-05 | MUN2113 | TRANSISTOR-RESISTOR | 4 | |
| QR7506-08 | MUN2111 | TRANSISTOR-RESISTOR | 3 | |
| QR7509, 10 | MUN2112 | TRANSISTOR-RESISTOR | 2 | |
| QR7511 | MUN2111 | TRANSISTOR-RESISTOR | 1 | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| R7501 | ERJ6GEYG181 | M. RESISTOR CH 1/10W 180 | 1 | |
| R7502 | ERDS2T0 | C. RESISTOR 1/4W 0 | 1 | |
| R7503, 04 | ERJ6GEYG132 | M. RESISTOR CH 1/10W 1.3K | 2 | |
| R7505 | ERJ6GEYG331 | M. RESISTOR CH 1/10W 330 | 1 | |
| R7506 | ERJ6GEYJ224 | M. RESISTOR CH 1/10W 220K | 1 | |
| R7507, 08 | ERJ6GEYG103 | M. RESISTOR CH 1/10W 10K | 2 | |
| R7509 | ERJ6GEYG221 | M. RESISTOR CH 1/10W 220 | 1 | |
| R7510 | ERJ6GEYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R7511 | ERJ6GEYG101 | M. RESISTOR CH 1/10W 100 | 1 | |
| R7512 | ERJ6GEYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R7513-15 | ERJ6GEYG221 | M. RESISTOR CH 1/10W 220 | 3 | |
| R7516 | ERJ6GEYG332 | M. RESISTOR CH 1/10W 3.3K | 1 | |
| R7517 | ERJ6GEYG221 | M. RESISTOR CH 1/10W 220 | 1 | |
| R7518 | ERJ6GEYG332 | M. RESISTOR CH 1/10W 3.3K | 1 | |
| R7519 | ERJ6GEYG221 | M. RESISTOR CH 1/10W 220 | 1 | |
| R7520 | ERJ6GEYF473 | M. RESISTOR CH 1/10W 47K | 1 | |
| R7521, 22 | ERJ6GEYG223 | M. RESISTOR CH 1/10W 22K | 2 | |
| R7523-25 | ERJ6GEYG221 | M. RESISTOR CH 1/10W 220 | 3 | |
| R7526-28 | ERJ6GEYG332 | M. RESISTOR CH 1/10W 3.3K | 3 | |
| R7529 | ERJ6GEYG221 | M. RESISTOR CH 1/10W 220 | 1 | |
| R7530 | ERJ6GEYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R7531 | ERDS2TJ470 | C. RESISTOR 1/4W 47 | 1 | |
| R7532, 33 | ERJ6GEYF473 | M. RESISTOR CH 1/10W 47K | 2 | |
| R7534 | ERJ6GEYG272 | M. RESISTOR CH 1/10W 2.7K | 1 | |
| R7535 | ERJ6GEYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R7536 | ERJ6GEYG223 | M. RESISTOR CH 1/10W 22K | 1 | |
| R7539, 40 | ERJ6GEYG332 | M. RESISTOR CH 1/10W 3.3K | 2 | |
| R7542 | ERJ6GEYG221 | M. RESISTOR CH 1/10W 220 | 1 | |
| RX7501, 02 | EXBF6E104J | RESISTOR-RESISTOR | 2 | |
| RX7503 | EXBF8E104J | RESISTOR-RESISTOR | 1 | |
| S7501, 02 | EVQ11409K | SWITCH | 2 | |
| S7504-09 | EVQ11409K | SWITCH | 6 | |
| S7510 | VSQ0822 | JOG/SHUTTLE ENCODER | 1 | |
| S7511 | EVQ11409K | SWITCH | 1 | |
| VC7501 | ECRHA010A54R | V. CAPACITOR 50K | 1 | |
| VR7501 | EVNCYAA03B53 | V. RESISTOR 5K | 1 | |
| X7501 | VSX0608 | CRYSTAL OSCILLATOR | 1 | |
| X7502 | VSX0094 | CRYSTAL OSCILLATOR | 1 | |
| | | MISCELLANEOUS | | |
| | VMD2035 | JOG/SHUTTLE HOLDER | 1 | |
| | VMD2247 | IR RECEIVER HOLDER | 1 | |
| | VMD1047 | LED HOLDER | 3 | |
| | VJF1139 | FIP HOLDER | 1 | |
| ■ | VEP07935E | TIMER C.B.A. | | [SUPPLIED FROM MBV] |
| | | | | (RTL) |
| | | | | NV-HD660EC |
| C7501 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C7502 | VCE0073 | E. CAPACITOR | 1 | |
| C7503 | ECA0JM221 | E. CAPACITOR 6.3V 220U | 1 | |
| C7504 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 1 | |
| C7505 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C7506 | ECUM1H560JCN | C. CAPACITOR CH 50V 56P | 1 | |
| C7507 | ECUM1H270JCN | C. CAPACITOR CH 50V 27P | 1 | |
| C7508 | ECUM1H220JCN | C. CAPACITOR CH 50V 22P | 1 | |
| C7509 | ECEA1HKA100 | E. CAPACITOR 50V 10U | 1 | |
| C7510-12 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 3 | |
| C7513 | ECUM1H221JCN | C. CAPACITOR CH 50V 220P | 1 | |
| C7515, 16 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 2 | |
| C7517, 18 | ECUM1H103ZFN | C. CAPACITOR CH 50V 0.01U | 2 | |
| C7519 | ECUM1H101JCN | C. CAPACITOR CH 50V 100P | 1 | |
| C7520 | ECEA0JKA470 | E. CAPACITOR 6.3V 47U | 1 | |
| C7521, 22 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 2 | |
| C7523 | ECEA0JKA330 | E. CAPACITOR 6.3V 33U | 1 | |
| C7524 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 1 | |
| C7525, 26 | ECEA1EKA4R7 | E. CAPACITOR 25V 4.7U | 2 | |
| C7527 | ECUX1H223KBN | C. CAPACITOR CH 50V 0.022U | 1 | |
| C7528, 29 | ECUM1H473ZFN | C. CAPACITOR CH 50V 0.047U | 2 | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| D7501 | MA723 | DIODE | 1 | |
| D7502 | MA4220 | DIODE | 1 | |
| D7503-07 | 1SS254 | DIODE | 5 | |
| D7511, 12 | 1SS254 | DIODE | 2 | |
| D7514 | 1SS254 | DIODE | 1 | |
| D7519 | 1SS254 | DIODE | 1 | |
| D7527-40 | 1SS254 | DIODE | 14 | |
| D7541, 42 | SLR932AVA | DIODE | 2 | [SUPPLIED FROM MBV] |
| D7543 | HLMK-D215 | DIODE | 1 | |
| DP7501 | VSL0467-B | DISPLAY TUBE | 1 | [SUPPLIED FROM MBV] |
| IC7501 | S80743AL | IC | 1 | |
| IC7502 | PST7023 | IC | 1 | |
| IC7503 | M37507V6AF | IC | 1 | [SUPPLIED FROM MBV] |
| IC7504 | BA6810F | IC | 1 | |
| IR7501 | RPM675GBRX10 | IR RECEIVER UNIT | 1 | |
| P7502 | VJS3301 | CONNECTOR (FEMALE) | 1 | |
| PP7501 | VJP3405A011W | CONNECTOR (MALE) 11P | 1 | |
| PP7503 | VJP3405A009W | CONNECTOR (MALE) 9P | 1 | |
| PS7501 | VJS3673B025G | CONNECTOR (FEMALE) 25P | 1 | |
| PS7502 | VJS3673F014G | CONNECTOR (FEMALE) 14P | 1 | [SUPPLIED FROM MBV] |
| Q7501 | MSB709 | TRANSISTOR | 1 | |
| QR7501 | MUN2112 | TRANSISTOR-RESISTOR | 1 | |
| QR7502-05 | MUN2113 | TRANSISTOR-RESISTOR | 4 | |
| QR7506-08 | MUN2111 | TRANSISTOR-RESISTOR | 3 | |
| QR7509, 10 | MUN2112 | TRANSISTOR-RESISTOR | 2 | |
| QR7511 | MUN2111 | TRANSISTOR-RESISTOR | 1 | |
| R7501 | ERJ6GEYG181 | M. RESISTOR CH 1/10W 180 | 1 | |
| R7502 | ERDS2T0 | C. RESISTOR 1/4W 0 | 1 | |
| R7503, 04 | ERJ6GEYG132 | M. RESISTOR CH 1/10W 1.3K | 2 | |
| R7505 | ERJ6GEYG331 | M. RESISTOR CH 1/10W 330 | 1 | |
| R7506 | ERJ6GEYJ224 | M. RESISTOR CH 1/10W 220K | 1 | |
| R7507, 08 | ERJ6GEYG103 | M. RESISTOR CH 1/10W 10K | 2 | |
| R7509 | ERJ6GEYG221 | M. RESISTOR CH 1/10W 220 | 1 | |
| R7510 | ERJ6GEYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R7511 | ERJ6GEYG101 | M. RESISTOR CH 1/10W 100 | 1 | |
| R7512 | ERJ6GEYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R7513-15 | ERJ6GEYG221 | M. RESISTOR CH 1/10W 220 | 3 | |
| R7516 | ERJ6GEYG332 | M. RESISTOR CH 1/10W 3.3K | 1 | |
| R7517 | ERJ6GEYG221 | M. RESISTOR CH 1/10W 220 | 1 | |
| R7518 | ERJ6GEYG332 | M. RESISTOR CH 1/10W 3.3K | 1 | |
| R7519 | ERJ6GEYG221 | M. RESISTOR CH 1/10W 220 | 1 | |
| R7520 | ERJ6GEYF473 | M. RESISTOR CH 1/10W 47K | 1 | |
| R7521, 22 | ERJ6GEYG223 | M. RESISTOR CH 1/10W 22K | 2 | |
| R7523-25 | ERJ6GEYG221 | M. RESISTOR CH 1/10W 220 | 3 | |
| R7526-28 | ERJ6GEYG332 | M. RESISTOR CH 1/10W 3.3K | 3 | |
| R7529 | ERJ6GEYG221 | M. RESISTOR CH 1/10W 220 | 1 | |
| R7530 | ERJ6GEYG103 | M. RESISTOR CH 1/10W 10K | 1 | |
| R7531 | ERDS2TJ470 | C. RESISTOR 1/4W 47 | 1 | |
| R7532, 33 | ERJ6GEYF473 | M. RESISTOR CH 1/10W 47K | 2 | |
| R7534 | ERJ6GEYG272 | M. RESISTOR CH 1/10W 2.7K | 1 | |
| R7535 | ERJ6GEYG102 | M. RESISTOR CH 1/10W 1K | 1 | |
| R7536 | ERJ6GEYG223 | M. RESISTOR CH 1/10W 22K | 1 | |
| R7539, 40 | ERJ6GEYG332 | M. RESISTOR CH 1/10W 3.3K | 2 | |
| R7542 | ERJ6GEYG221 | M. RESISTOR CH 1/10W 220 | 1 | |
| RX7501, 02 | EXBF6E104J | RESISTOR-RESISTOR | 2 | |
| RX7503 | EXBF8E104J | RESISTOR-RESISTOR | 1 | |
| S7501, 02 | EVQ11409K | SWITCH | 2 | |
| S7504-09 | EVQ11409K | SWITCH | 6 | |
| S7510 | VSQ0822 | JOG/SHUTTLE ENCODER | 1 | |
| S7511 | EVQ11409K | SWITCH | 1 | |
| VC7501 | ECRHA010A54R | V. CAPACITOR 50K | 1 | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| VR7501 | EVNCYAA03B53 | V. RESISTOR 5K | 1 | |
| X7501 | VSX0608 | CRYSTAL OSCILLATOR | 1 | |
| X7502 | VSX0094 | CRYSTAL OSCILLATOR | 1 | |
| | | MISCELLANEOUS | | |
| | VMD2035 | JOG/SHUTTLE HOLDER | 1 | |
| | VMD2247 | IR RECEIVER HOLDER | 1 | |
| | VMD1047 | LED HOLDER | 3 | |
| | VJF1139 | FIP HOLDER | 1 | |
| ■ | VEP06B38B | POWER SWITCH C.B.A. | | [SUPPLIED FROM MBV] (RTL) |
| C6501, 02 | ECUM1H821JCN | C. CAPACITOR CH 50V 820P | 2 | |
| C6504 | ECUM1H472KBN | C. CAPACITOR CH 50V 4700P | 1 | |
| C6505 | ECEA1HKA010 | E. CAPACITOR 50V 1U | 1 | |
| C6506 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 1 | |
| C6507 | ECUM1H101JCN | C. CAPACITOR CH 50V 100P | 1 | |
| C6508 | ECEA1CKA220 | E. CAPACITOR 16V 22U | 1 | |
| C6509 | ECEA1CKA100 | E. CAPACITOR 16V 10U | 1 | |
| C6510 | ECEA1CKA470 | E. CAPACITOR 16V 47U | 1 | |
| C6512-14 | ECUM1H104ZFN | C. CAPACITOR CH 50V 0.1U | 3 | |
| D6501 | 1SS254 | DIODE | 1 | |
| D6502 | MA4051-L | DIODE | 1 | |
| D6503-07 | 1SS254 | DIODE | 5 | |
| D6508 | SLR932AVA | DIODE | 1 | [SUPPLIED FROM MBV] |
| IC6501 | M5220FP | IC | 1 | |
| JK6501 | VJJ0169 | JACK | 1 | |
| JK6502 | VJJ0416 | JACK | 1 | |
| JK6505 | VJJ0263 | JACK | 1 | |
| L6501, 02 | ELESE102KA | COIL 1000UH | 2 | |
| P6501 | VJS3537B006G | CONNECTOR (FEMALE) 6P | 1 | |
| PS6501 | VJS3405A011A | CONNECTOR (FEMALE) 11P | 1 | |
| PS6502 | VJS3405A009A | CONNECTOR (FEMALE) 9P | 1 | |
| Q6501 | MSD1328 | TRANSISTOR | 1 | |
| Q6502 | 2SD1994 | TRANSISTOR | 1 | |
| R6501 | ERJ6GEYG750 | M. RESISTOR CH 1/10W 75 | 1 | |
| R6502, 03 | ERJ6GEYG102 | M. RESISTOR CH 1/10W 1K | 2 | |
| R6504 | ERJ6GEYF472 | M. RESISTOR CH 1/10W 4.7K | 1 | |
| R6505 | ERJ6GEYJ471 | M. RESISTOR CH 1/10W 470 | 1 | |
| R6506 | ERJ6GEYF472 | M. RESISTOR CH 1/10W 4.7K | 1 | |
| R6507 | ERJ6GEYG153 | M. RESISTOR CH 1/10W 15K | 1 | |
| R6508 | ERJ6GEYG332 | M. RESISTOR CH 1/10W 3.3K | 1 | |
| R6509, 10 | ERJ6GEYG223 | M. RESISTOR CH 1/10W 22K | 2 | |
| R6511 | ERJ6GEYG151 | M. RESISTOR CH 1/10W 150 | 1 | |
| R6512 | ERJ6GEYF473 | M. RESISTOR CH 1/10W 47K | 1 | |
| R6513, 14 | ERDS2TJ102 | C. RESISTOR 1/4W 1K | 2 | |
| R6515-18 | ERJ6GEYG104 | M. RESISTOR CH 1/10W 100K | 4 | |
| R6519 | ERDS2TJ150 | C. RESISTOR 1/4W 15 | 1 | |
| R6520 | ERJ6GEYJ471 | M. RESISTOR CH 1/10W 470 | 1 | |
| R6523 | ERJ6GEYG162 | M. RESISTOR CH 1/10W 1.6K | 1 | |
| R6524 | ERJ6GEYG241 | M. RESISTOR CH 1/10W 240 | 1 | |
| R6525 | ERJ6GEYG680 | M. RESISTOR CH 1/10W 68 | 1 | |
| R6526, 27 | ERJ6GEYG682 | M. RESISTOR CH 1/10W 6.8K | 2 | |
| S6501-04 | EVQ11409K | SWITCH | 4 | |
| VR6501 | EVUF3AE20B24 | V. RESISTOR 20K | 1 | |
| VR6502 | EVJ021E2054J | V. RESISTOR | 1 | |
| | | MISCELLANEOUS | | |
| | VMD2591 | LED HOLDER | 1 | [SUPPLIED FROM MBV] |
| ⚠ ■ | VEP01763A | POWER C.B.A. | | [SUPPLIED FROM MBV] |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| | | | | (RTL) |
| | | | | NV-HD660EG/EGH |
| ⚠C1101 | ECKMWS102MEH | C. CAPACITOR 1000P | 1 | |
| ⚠C1104 | ECKMWS102MEH | C. CAPACITOR 1000P | 1 | |
| C1106 | ECQE6104KF | P. CAPACITOR 630V 0.1U | 1 | |
| ⚠C1107 | ECKMWS102MEH | C. CAPACITOR 1000P | 1 | |
| ⚠C1110, 11 | ECQU2A104MV | P. CAPACITOR 100V 0.01U | 2 | |
| C1112 | ECEC2GG330 | E. CAPACITOR 400V 33U | 1 | |
| C1113 | ECKD2H103PU | C. CAPACITOR 500V 0.01U | 1 | |
| C1114 | ECCD3A470KGE | C. CAPACITOR 1KV 47P | 1 | |
| C1115 | ECA1VGE470X | E. CAPACITOR 35V 47U | 1 | |
| C1116 | ECEA1HGE470 | E. CAPACITOR 50V 47U | 1 | |
| C1117 | ECQV1H104JM | P. CAPACITOR 50V 0.1U | 1 | |
| C1118 | ECKF1H102KB | C. CAPACITOR 50V 1000P | 1 | |
| C1120 | ECQB1H103JF | P. CAPACITOR 50V 0.01U | 1 | |
| C1121 | EEUFA1E681 | E. CAPASITOR 25V 680U | 1 | |
| C1122 | ECEA1EGE221 | E. CAPACITOR 25V 220U | 1 | |
| C1123 | ECKD2H101KB | C. CAPACITOR 500V 100P | 1 | |
| C1124 | EEUFA1A122 | E. CAPASITOR 10V 1200U | 1 | |
| C1125 | ECEA1AGE331 | E. CAPACITOR 10V 330U | 1 | |
| C1127 | ECA1HFQ560 | E. CAPACITOR 50V 56U | 1 | |
| C1128 | ECKF1H103ZF | C. CAPACITOR 50V 0.01U | 1 | |
| C1129 | ECKD2H101KB | C. CAPACITOR 500V 100P | 1 | |
| C1130 | ECA1VFQ560 | E. CAPACITOR 35V 56U | 1 | |
| C1131 | ECKZ1H103ZFB | C. CAPACITOR 50V 0.01U | 1 | |
| C1133 | ECA0JFQ221 | E. CAPACITOR 6.3V 220U | 1 | |
| C1134, 35 | ECQB1H103JF | P. CAPACITOR 50V 0.01U | 2 | |
| C1136 | ECKF1H391KB | C. CAPACITOR 50V 390P | 1 | |
| C1147 | ECKF1H102KB | C. CAPACITOR 50V 1000P | 1 | |
| C1148 | ECQV1H104JM | P. CAPACITOR 50V 0.1U | 1 | |
| C1150 | ECQB1H103JF | P. CAPACITOR 50V 0.01U | 1 | |
| | | | | |
| ⚠D1102 | S1WBA60S | DIODE | 1 | |
| D1103 | AP01C | DIODE | 1 | |
| D1104 | MA185 | DIODE | 1 | |
| D1108 | RD100E | DIODE | 1 | |
| D1109, 10 | ERA15-08 | DIODE | 2 | |
| D1121 | RN2ZLF-C4 | DIODE | 1 | |
| D1122 | 21DQ04 | DIODE | 1 | |
| D1123 | ERA22-02 | DIODE | 1 | |
| D1124 | MA185 | DIODE | 1 | |
| D1125 | 11EQS04 | DIODE | 1 | |
| D1126 | MA4043-L | DIODE | 1 | |
| D1127 | 1SS254 | DIODE | 1 | |
| D1129 | MA4039-M | DIODE | 1 | |
| | | | | |
| ⚠F1101 | XBA2C16TH15 | FUSE | 1 | |
| | | | | |
| IC1101 | TDA4605-3 | IC | 1 | |
| | | | | |
| ⚠IP1101 | VSF0015A10 | IC PROTECTOR | 1 | |
| | | | | |
| ⚠L1107, 08 | ELF18D221F | COIL 220UH | 2 | |
| L1121, 22 | VLQ0655K220T | COIL 22UH | 2 | [SUPPLIED FROM MBV] |
| L1123, 24 | ELESE101KA | COIL 100UH | 2 | |
| | | | | |
| LB1101 | VLP0085 | COIL | 1 | |
| LB1102 | VLP0074 | COIL | 1 | |
| | | | | |
| ⚠P1101 | VJS3306 | AC INLET | 1 | |
| P1102 | VJP3631A011W | CONNECTOR (MALE) 11P | 1 | |
| | | | | |
| ⚠Q1101 | STP3N60FI-M | TRANSISTOR | 1 | |
| Q1102 | 2SD1991A | TRANSISTOR | 1 | |
| ⚠Q1111 | MOC8104T | TRANSISTOR | 1 | |
| | | | | |
| QR1101 | UN6114 | TRANSISTOR-RESISTOR | 1 | |
| QR1103 | UN4213 | TRANSISTOR-RESISTOR | 1 | |
| | | | | |
| R1103 | ERG1SJ393 | M. RESISTOR 1W 39K | 1 | |
| R1104 | ERDS2TJ391 | C. RESISTOR 1/4W 390 | 1 | |
| R1107 | ERDS2FJ184T | C. RESISTOR 1/4W 180K | 1 | [SUPPLIED FROM MBV] |
| R1108 | ERDS2FJ105 | C. RESISTOR 1/4W 1M | 1 | |
| R1109 | ERDS2FJ221 | C. RESISTOR 1/4W 220 | 1 | |
| R1110 | ERDS2FJ822 | C. RESISTOR 1/4W 8.2K | 1 | |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| R1111 | ERDS2FJ222 | C. RESISTOR 1/4W 2.2K | 1 | |
| R1112 | ERDS2FJ304 | C. RESISTOR 1/4W 300K | 1 | |
| R1113 | ERDS2FJ474 | C. RESISTOR 1/4W 470K | 1 | |
| R1114 | ERX12SJR75 | M. RESISTOR 1/2W 0.75 | 1 | |
| R1115 | ERDS2FJ103 | C. RESISTOR 1/4W 10K | 1 | |
| R1116 | ERDS2FJ100 | C. RESISTOR 1/4W 10 | 1 | |
| R1117 | ERDS2FJ472 | C. RESISTOR 1/4W 4.7K | 1 | |
| ⚠R1122 | ERG12AGM334 | S. RESISTOR 1/2W 330K | 1 | |
| R1125 | ERDS2TJ271 | C. RESISTOR 1/4W 270 | 1 | |
| R1128 | ERDS2FJ332 | C. RESISTOR 1/4W 3.3K | 1 | |
| R1129 | ERDS2FJ123 | C. RESISTOR 1/4W 12K | 1 | |
| R1133 | ERDS2FJ474 | C. RESISTOR 1/4W 470K | 1 | |
| R1135 | ERDS2FJ274 | C. RESISTOR 1/4W 270K | 1 | |
| | | | | |
| ⚠T1101 | VLT0874 | TRANSFORMER | 1 | [SUPPLIED FROM MBV] |
| | | | | |
| | | MISCELLANEOUS | | |
| ⚠ | EYF52BC | FUSE HOLDER | 2 | |
| | VSC4205 | SHIELD COVER | 1 | |
| | VMP4717 | INRET ANGLE | 1 | |
| | VHD0418 | SCREW | 1 | |
| ⚠ | VMZ2212 | CAPACITOR COVER | 2 | |
| ⚠ | VMZ2394 | P. C. B. HOLDER ANGLE | 1 | |
| | | | | |
| | | | | |
| ⚠ ■ | VEP01763B | POWER C. B. A. | | [SUPPLIED FROM MBV] |
| | | | | (RTL) |
| | | | | NV-HD660B/EG |
| ⚠C1101 | ECKMWS102MEH | C. CAPACITOR 1000P | 1 | |
| ⚠C1104 | ECKMWS102MEH | C. CAPACITOR 1000P | 1 | |
| C1106 | ECQE6104KF | P. CAPACITOR 630V 0.1U | 1 | |
| ⚠C1107 | ECKMWS102MEH | C. CAPACITOR 1000P | 1 | |
| ⚠C1110, 11 | ECQU2A104MV | P. CAPACITOR 100V 0.01U | 2 | |
| C1112 | ECEC2GG330 | E. CAPACITOR 400V 33U | 1 | |
| C1113 | ECKD2H103PU | C. CAPACITOR 500V 0.01U | 1 | |
| C1114 | ECCD3A470KGE | C. CAPACITOR 1KV 47P | 1 | |
| C1115 | ECA1VGE470X | E. CAPACITOR 35V 47U | 1 | |
| C1116 | ECEA1HGE470 | E. CAPACITOR 50V 47U | 1 | |
| C1117 | ECQV1H104JM | P. CAPACITOR 50V 0.1U | 1 | |
| C1118 | ECKF1H102KB | C. CAPACITOR 50V 1000P | 1 | |
| C1120 | ECQB1H103JF | P. CAPACITOR 50V 0.01U | 1 | |
| C1121 | EEUFA1E681 | E. CAPASITOR 25V 680U | 1 | |
| C1122 | ECEA1EGE221 | E. CAPACITOR 25V 220U | 1 | |
| C1123 | ECKD2H101KB | C. CAPACITOR 500V 100P | 1 | |
| C1124 | EEUFA1A122 | E. CAPASITOR 10V 1200U | 1 | |
| C1125 | ECEA1AGE331 | E. CAPACITOR 10V 330U | 1 | |
| C1127 | ECA1HFQ560 | E. CAPACITOR 50V 56U | 1 | |
| C1128 | ECKF1H103ZFB | C. CAPACITOR 50V 0.01U | 1 | |
| C1129 | ECKD2H101KB | C. CAPACITOR 500V 100P | 1 | |
| C1130 | ECA1VFQ560 | E. CAPACITOR 35V 56U | 1 | |
| C1131 | ECKF1H103ZFB | C. CAPACITOR 50V 0.01U | 1 | |
| C1133 | ECA0JFQ221 | E. CAPACITOR 6.3V 220U | 1 | |
| C1134, 35 | ECQB1H103JF | P. CAPACITOR 50V 0.01U | 2 | |
| C1136 | ECKF1H391KB | C. CAPACITOR 50V 390P | 1 | |
| C1147 | ECKF1H102KB | C. CAPACITOR 50V 1000P | 1 | |
| C1148 | ECQV1H104JM | P. CAPACITOR 50V 0.1U | 1 | |
| C1150 | ECQB1H103JF | P. CAPACITOR 50V 0.01U | 1 | |
| | | | | |
| ⚠D1102 | S1WBA60S | DIODE | 1 | |
| D1103 | AP01C | DIODE | 1 | |
| D1104 | MA185 | DIODE | 1 | |
| D1108 | RD100E | DIODE | 1 | |
| D1109, 10 | ERA15-08 | DIODE | 2 | |
| D1121 | RN2ZLF-C4 | DIODE | 1 | |
| D1122 | 21DQ04 | DIODE | 1 | |
| D1123 | ERA22-02 | DIODE | 1 | |
| D1124 | MA185 | DIODE | 1 | |
| D1125 | 11EQS04 | DIODE | 1 | |
| D1126 | MA4043-L | DIODE | 1 | |
| D1127 | 1SS254 | DIODE | 1 | |
| D1129 | MA4039-M | DIODE | 1 | |
| | | | | |
| ⚠F1101 | XBA2C16TH15 | FUSE | 1 | |
| | | | | |
| IC1101 | TDA4605-3 | IC | 1 | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| ⚠IP1101 | VSF0015A10 | IC PROTECTOR | 1 | |
| ⚠L1107,08 | ELF18D221F | COIL 220UH | 2 | |
| L1121,22 | VLQ0655K220T | COIL 22UH | 2 | [SUPPLIED FROM MBV] |
| L1123,24 | ELESE101KA | COIL 100UH | 2 | |
| LB1101 | VLP0085 | COIL | 1 | |
| LB1102 | VLP0074 | COIL | 1 | |
| ⚠P1101 | VJS3306 | AC INLET | 1 | |
| P1102 | VJP3631A011W | CONNECTOR (MALE) 11P | 1 | |
| ⚠Q1101 | STP3N60F1-M | TRANSISTOR | 1 | |
| Q1102 | 2SD1991A | TRANSISTOR | 1 | |
| ⚠Q1111 | MOC8104T | TRANSISTOR | 1 | |
| QR1101 | UN6114 | TRANSISTOR-RESISTOR | 1 | |
| QR1103 | UN4213 | TRANSISTOR-RESISTOR | 1 | |
| R1103 | ERG1SJ393 | M.RESISTOR 1W 39K | 1 | |
| R1104 | ERDS2TJ391 | C.RESISTOR 1/4W 390 | 1 | |
| R1107 | ERDS2FJ184T | C.RESISTOR 1/4W 180K | 1 | [SUPPLIED FROM MBV] |
| R1108 | ERDS2FJ105 | C.RESISTOR 1/4W 1M | 1 | |
| R1109 | ERDS2FJ221 | C.RESISTOR 1/4W 220 | 1 | |
| R1110 | ERDS2FJ822 | C.RESISTOR 1/4W 8.2K | 1 | |
| R1111 | ERDS2FJ222 | C.RESISTOR 1/4W 2.2K | 1 | |
| R1112 | ERDS2FJ304 | C.RESISTOR 1/4W 300K | 1 | |
| R1113 | ERDS2FJ474 | C.RESISTOR 1/4W 470K | 1 | |
| R1114 | ERX12SJR75 | M.RESISTOR 1/2W 0.75 | 1 | |
| R1115 | ERDS2FJ103 | C.RESISTOR 1/4W 10K | 1 | |
| R1116 | ERDS2FJ100 | C.RESISTOR 1/4W 10 | 1 | |
| R1117 | ERDS2FJ472 | C.RESISTOR 1/4W 4.7K | 1 | |
| ⚠R1122 | ERC12AGM334 | S.RESISTOR 1/2W 330K | 1 | |
| R1125 | ERDS2TJ271 | C.RESISTOR 1/4W 270 | 1 | |
| R1128 | ERDS2FJ332 | C.RESISTOR 1/4W 3.3K | 1 | |
| R1129 | ERDS2FJ123 | C.RESISTOR 1/4W 12K | 1 | |
| R1133 | ERDS2FJ474 | C.RESISTOR 1/4W 470K | 1 | |
| R1135 | ERDS2FJ274 | C.RESISTOR 1/4W 270K | 1 | |
| ⚠T1101 | VLT0874 | TRANSFORMER | 1 | [SUPPLIED FROM MBV] |
| | | MISCELLANEOUS | | |
| ⚠ | EYF52BC | FUSE HOLDER | 2 | |
| | VSC4205 | SHIELD COVER | 1 | |
| | VMP4717 | INRET ANGLE | 1 | |
| | VHD0418 | SCREW | 1 | |
| ⚠ | VMZ2212 | CAPACITOR COVER | 2 | |
| ⚠ | VMZ2394 | P.C.B. HOLDER ANGLE | 1 | |
| ■ | VEX0231 | CYLINDER DRIVE C.B.A. | | (RTL) |
| C2901-03 | ECEA1VSN2R2 | E.CAPACITOR 35V 2.2U | 3 | |
| C2904-06 | ECUM1E104KBM | C.CAPACITOR CH 25V 0.1U | 3 | |
| C2907 | ECUM1E683KBM | C.CAPACITOR CH 25V 0.068U | 1 | |
| C2908 | ECUM1E473KBM | C.CAPACITOR CH 25V 0.047U | 1 | |
| C2910 | ECEA1CKS100 | E.CAPACITOR 16V 10U | 1 | |
| IC2901 | AN3814K | IC | 1 | |
| P2901 | VJP2603W | CONNECTOR (MALE) 12P | 1 | |
| P2902 | VJP1232T | CONNECTOR (MALE) 5P | 1 | |
| R2901 | ERX12SJR68 | M.RESISTOR CH 1/2W 0.68 | 1 | |
| TH2901 | VRH0017 | THERMISTOR | 1 | |
| | | MISCELLANEOUS | | |
| | VMA9138 | MAIN HOLDER | 1 | |
| ■ | ---------- | MOTOR C.B.A. | | |

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| | | MISCELLANEOUS | | |
| | VJP3316B002 | CONNECTOR (MALE) 2P | 1 | |

## INTERNAL REFERENCE CODES

NOTE: This chart is only for internal reference.
Do not order any parts according to these codes.

| P. C. B. | FILM CODE |
|---|---|
| MAIN | H0A001-06B36 |
| LUMINANNCE & CHROMINANCE | H0A001-03D32 |
| HIFI AUDIO | H0A000-04644 |
| INPUT/OUTPUT | H0A000-03D34 |
| TIMER SYUGO | H0A000-0360A |
| TV DEMODULATOR | H0A000-07801 |
| DECODER(EG/EGH) | H0A001-07784 |
| NICAM DECODER(B/EC) | H0A000-07787 |
| POWER | H0A001-01763 |
| SQ PB SYUGO | H0A000-0367A |
| REC CHROMA | H0A000-03D91 |
| HEAD AMP | H0A000-05329 |
| CYLINDER DRIVE | H0A001-00V23 |
| LOADING MOTOR | H0A000-00S75 |

Panasonic

MATSUSHITA ELECTRIC

Printed in Germany

ORDER NO. VSD9402M632

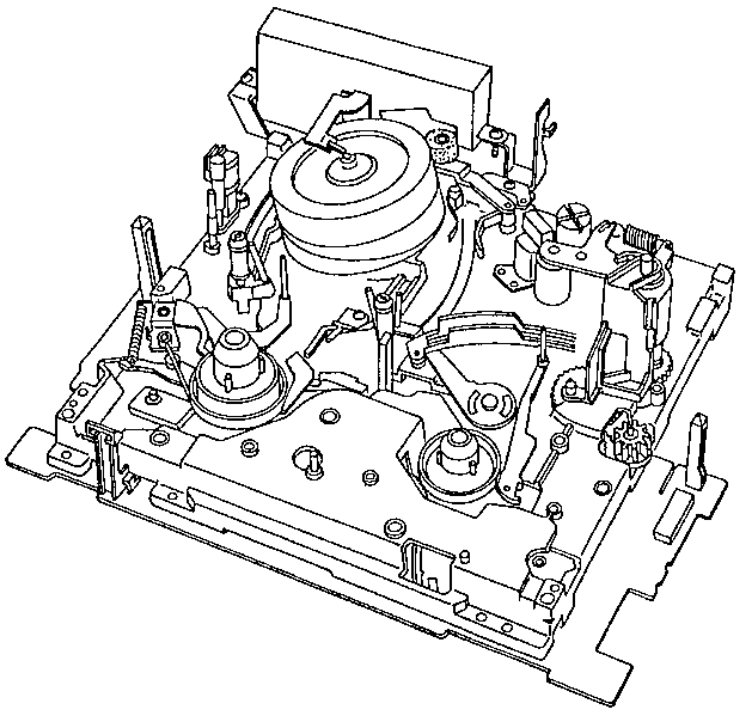
# Service Manual

Video Cassette Recorder

VHS
PAL


Sec. 1 *General Information*
Sec. 2 *Maintenance Procedures*
Sec. 3 *Mechanical Adjustment Procedur*
Sec. 4 *Assembly & Phase Adjustment Procedure*


## K-MECHANISM



**IMPORTANT**

The **K-MECHANISM** chassis are built in several Panasonic SVHS／VHS Video Cassette Recorder.

Thus, Properly file this service manual with the service manual of the relative video cassette recorder.

Panasonic

# INTRODUCTION

*This Service Manual contains the technical information which service personnel to understand and service the K-Mechanism.*
*The Maintenance Chart, Mechanical Parts List and Mechanical Specification, please refer to the service manual of each model.*

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# SECTION 1
# GENERAL INFORMATION

The K mechanism maintains the same high performance as G2 mechanism but with a smaller quantity of mounted parts, 40% less than G2 mechanism.

## 1-1. FEATURE of K MECHANISM

### 1-1-1. Parts Reduction

**<K Mechanism>**

a. Reduction in the number of drive parts through the use of a single motor to perform front loading and unit loading.
b. Direct drive of brakes and loading gears with the multi-function main lever.
c. Elimination of sub lever and solenoids.

**<Front Loading Unit>**

a. Elimination of a slide switch, to reduce wiring.
b. Elimination or combining the joint parts.
c. Smaller and thinner the top plate and rack parts.

### 1-1-2. No Adjustment of the following is required.

a. Take-up inclined position.
b. P5 Post height.

### 1-1-3. Reduced Gear Phase Position Alignments

The K Mechanism has only 6 gear phase alignment positions and G2 mechanism has 12 gear phase alignment positions.

## 1-2. OPERATION of K-MECHANISM

The K mechanism has two motors, the loading motor and capstan motor. The loading motor operates the front loading/unloading and tape loading/unloading. The capstan motor operates each mode.
The bottom C.B.A. connects the mechanism to the system control circuit. On the bottom C.B.A. there are take-up and supply photo-sensors, Sensor LED, Mode Switch Connector, Safety Tab Switch, Supply and Take-up Reel Sensors and Loading Motor Connector. All sensor information sent to the system control circuit.

## 1-3. EMERGENCY CASSETTE REMOVAL

If the electrical circuit is defective and the action of unloading and front unloading do not work properly, it is possible to removing cassette manually.
There are 2 methods of removing the cassette.

### A. Battery Operation

1. Remove the bottom plate.
2. Connect the battery (Manganese-Type (AA)(R6) 3pcs./+4.5V) to P1503 as shown in Fig.G1.
3. After moving the loading post to the unloaded position, disconnect the battery to stop the loading motor.
4. Turn the capstan rotor clockwise to take up the tape.
5. Reconnect the battery to eject the cassette.

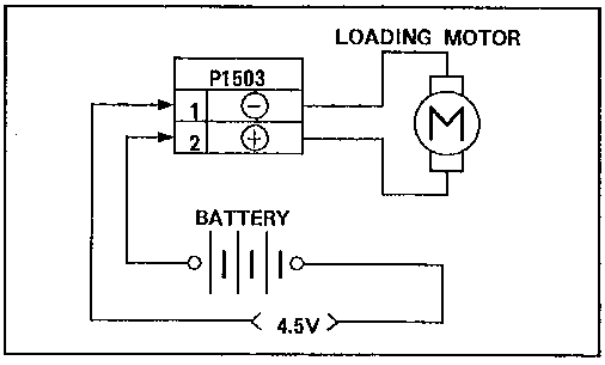



Fig.G1

## B. Hand Operation

1. Remove the bottom plate.
2. Turn the worm gear to arrow mark direction (A) by finger as shown in Fig.G2 until loading post move to unloading position.
3. Turn the capstan rotor clockwise (B) to take up the tape.
4. Turn the worm gear again to eject the cassette.

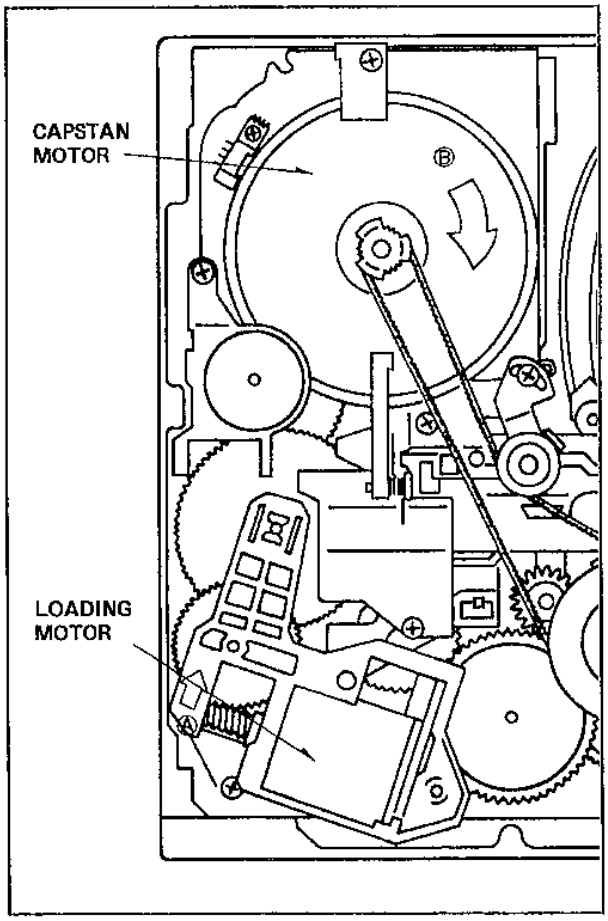



Fig.G2

## 1-4. EJECT OPERATION

The main cam gear rotates in the direction of the arrow. The projection (B) of the carriage connection gear engages with the recession (A) of the main cam gear. The carriage connection gear rotates in the direction of the arrow to perform the Eject operation.

If the Eject operation is performed without the cassette installed while repairing or making the mechanical phase alignment, the main cam gear will not rotate. For performing the Eject operation with the cassette carriage not installed, it is necessary to rotate the carriage connection gear by hand in the direction of the arrow.

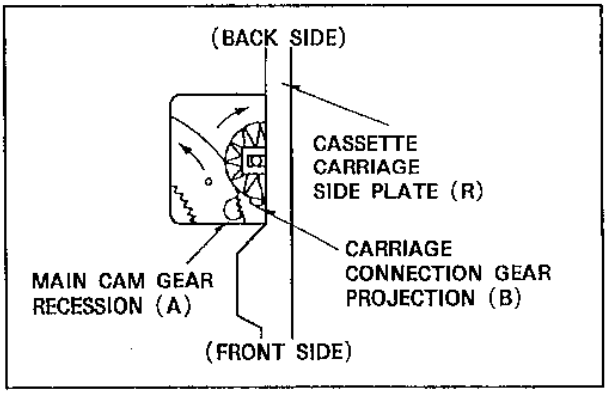



Fig.G3

## 1-5. REMOVAL of MECHANISM

### 1-5-1. Removal of Top Plate

1. Unscrew 2 screws (A) and unlock 4 locking tabs to arrow direction as shown in Fig.G4.
2. Lift up the Top Plate.

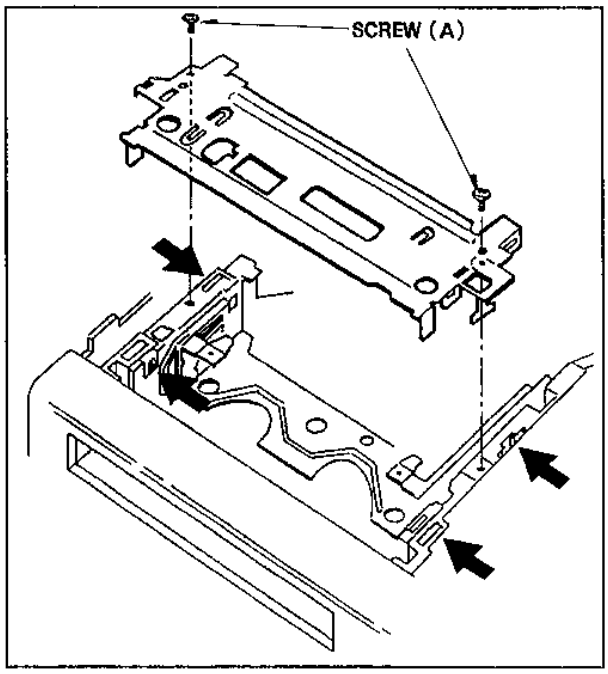



Fig.G4

## 1-5-2. Removal of Mechanism Chassis

1. Unscrew 2 screws (A) push the Holder Plate slightly to rear of the mechanism.
2. Unscrew a screw (B).
3. Disconnect all cable and connectors on the mechanism chassis.
   1)FE Head connector
   2)A/C Head connector
   3)Power Transistor connector
   4)Head Amp connector
   5)Capstan cable
4. Disconnect a Dew Sensor connector on the MAIN C.B.A.
5. Lift the mechanism chassis slightly and disconnect a connector of Cylinder Motor and a cable of Mechanism Connection C.B.A.
   Then mechanism chassis out of the unit.

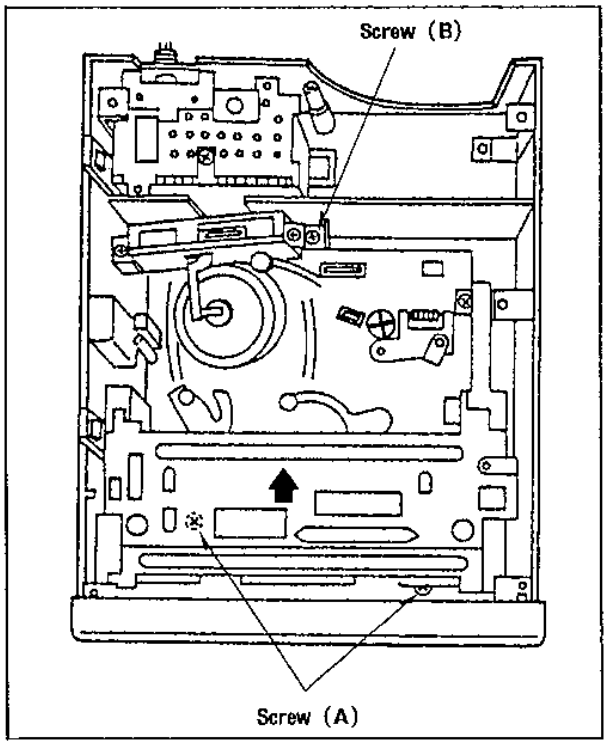



Fig.G5

## 1-5-3. Removal of Mechanism Connection C.B.A.

1. Unscrew 4 screws (C).
2. Lift up the Mechanism Connection C.B.A.

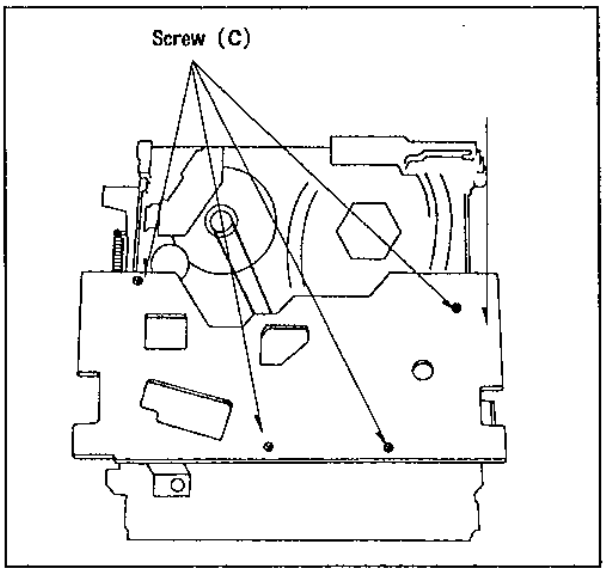
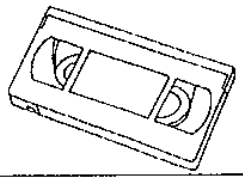
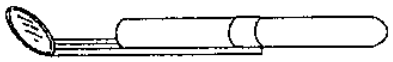
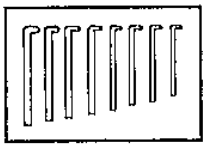
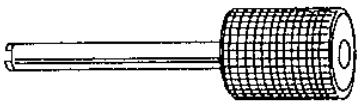
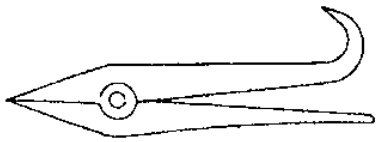
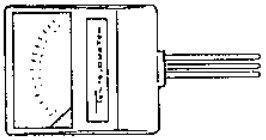
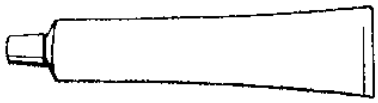
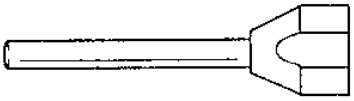
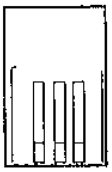
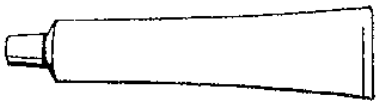
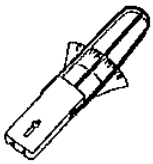


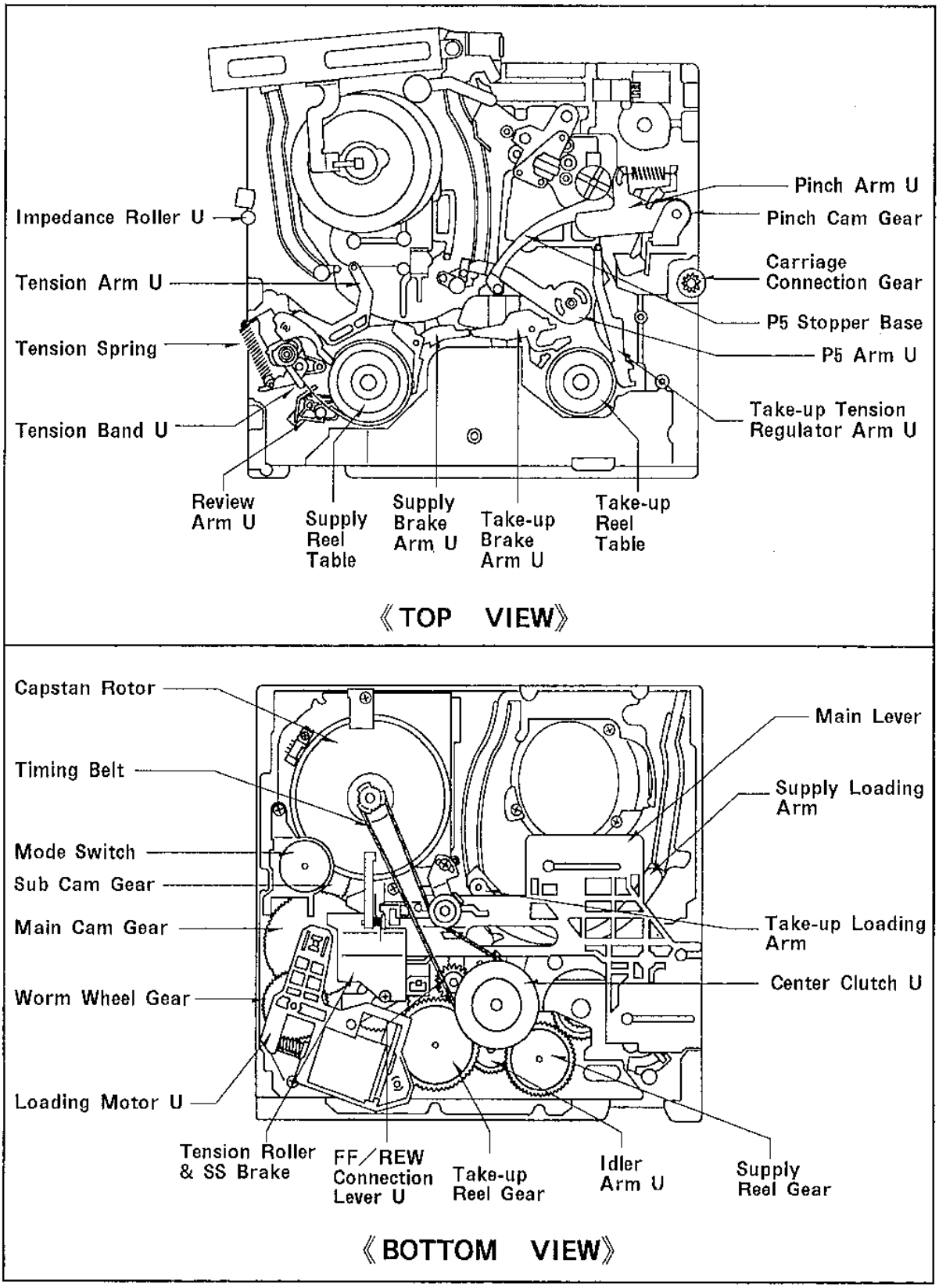

Fig.G6

## 1-6. SERVICE FIXTURES AND TOOLS

The regular maintenance is important to maintain the initial specification of the unit and prevent tape damage. The specified servicing fixture must be used to conduct adjustment.
The following fixtures, tools and measuring equipments are required to conduct complete Mechanical Adjustments.

| | | |
|---|---|---|
| VFM8080HQFP: VHS Alignment Tape  | VFK0948: Check Light  | VFK0326: Hex Wrench Set (0.7, 0.9, 1.2, 1.5, 1.6, 2.0, 2.4, 3.0mm)  |
| VFK0329: Post Adj. Screwdriver  | VFK0335: Retaining Ring Remover  | VFK0132: Back Tension Meter (Tentelometer,Made in U.S.A.)  |
| MOR265: Morlytone Grease (Black) (for metal parts)  | VFK0851: Center Fixing Tool  | VFK27: Head Cleaning Stick  |
| VFK0680: S.C.R. Grease (White) (for plastic parts)  | VFK66 ; Fan Type Tension Gauge  | VFK0330: Fine Adj. Screwdriver |

## 1-7. Mechanical Parts Location



# SECTION 2
# MAINTENANCE PROCEDURE

The MAINTENANCE CHART please refer to the Maintenance Section which are shown in service manual for each model.

## 2-1. Replacement of the Upper Cylinder Unit

1. Unscrew 2 screws (A).
2. Unsolder arrows marked portions on the top of the Upper Cylinder as shown in Fig.M1.
3. Remove the Upper Cylinder.
4. The Upper Cylinder can be reinstalled by reversing the removal procedure.
   However, when insert the Upper Cylinder be extremely carefully so that marked portion of P.C.board of the Upper Cylinder correctly matches to mark of the Lower Cylinder as shown in Fig.M2.

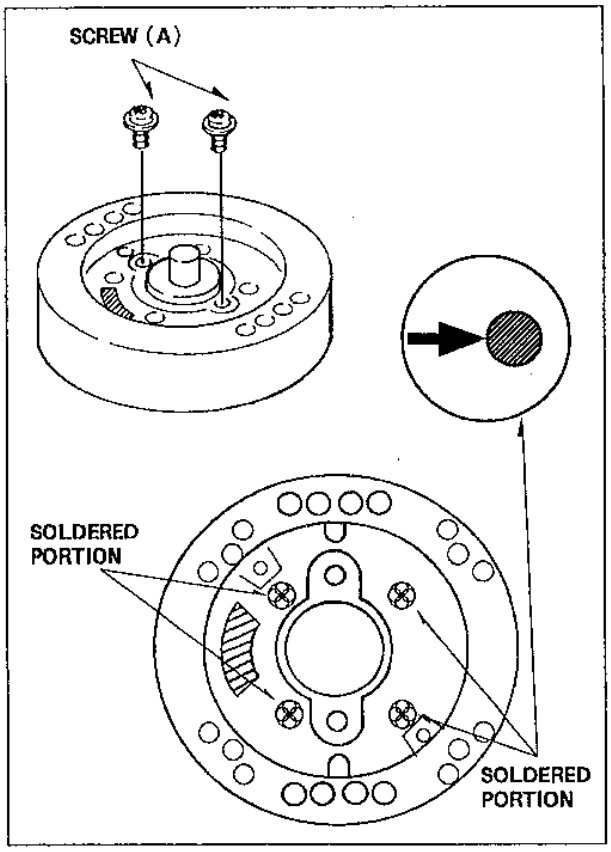



Fig.M1

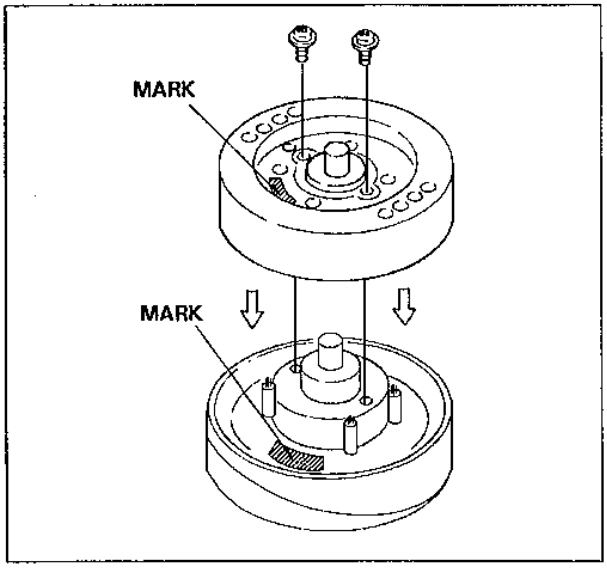



Fig.M2

*<NOTE>*
*After reinstall the Upper Cylinder Unit should be perform Mechanical and Electrical adjustments.*
3-2. FINE ADJUSTMENT of P2 and P3 POSTS
3-6. HORIZONTAL POSITION ADJUSTMENT

## 2-2. Replacement of Cylinder Unit

1. Remove the Earth Plate.
2. Unscrew 2 screws both side of Head Amp Unit and lift up the Head AMP.
3. Unscrew 3 screws (B) from back side of the mechanical chassis then remove the Cylinder Unit.
4. The Cylinder Unit can be reinstalled by reversing the removal procedure.

*<Note>*
*After reinstall the Cylinder Unit should be perform Mechanical and Electrical adjustments.*
3-2. FINE ADJUSTMENT of P2 and P3 POSTS
3-6. HORIZONTAL POSITION ADJUSTMENT

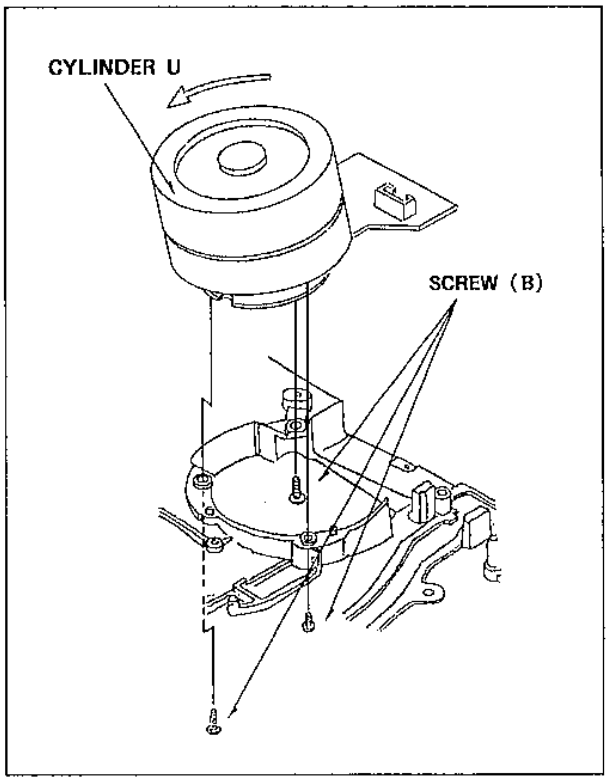



Fig.M3

## 2-3. Replacement of A/C HEAD Unit

1. Unscrew 3 screws (C)(D)(E) with the 3 springs then remove the A/C Head unit from the A/C Head Base.
2. The A/C Head Unit can be reinstalled by reversing the removal procedure.

*<Note>*
*A space should be equality between the A/C Head U and the A/C Head Base when reinstall the A/C Head unit.*

*After reinstall the A/C Head Unit should be perform Mechanical and Electrical adjustments.*
3-2. FINE ADJUSTMENT of P2 and P3 POSTS
3-3. COARSE ADJUSTMENT of A/C HEAD HEIGHT(1)
3-4. COARSE ADJUSTMENT of A/C HEAD HEIGHT(2)
3-5. FINE ADJUSTMENT of A/C HEAD HEIGHT
3-6. HORIZONTAL POSITION ADJUSTMENT

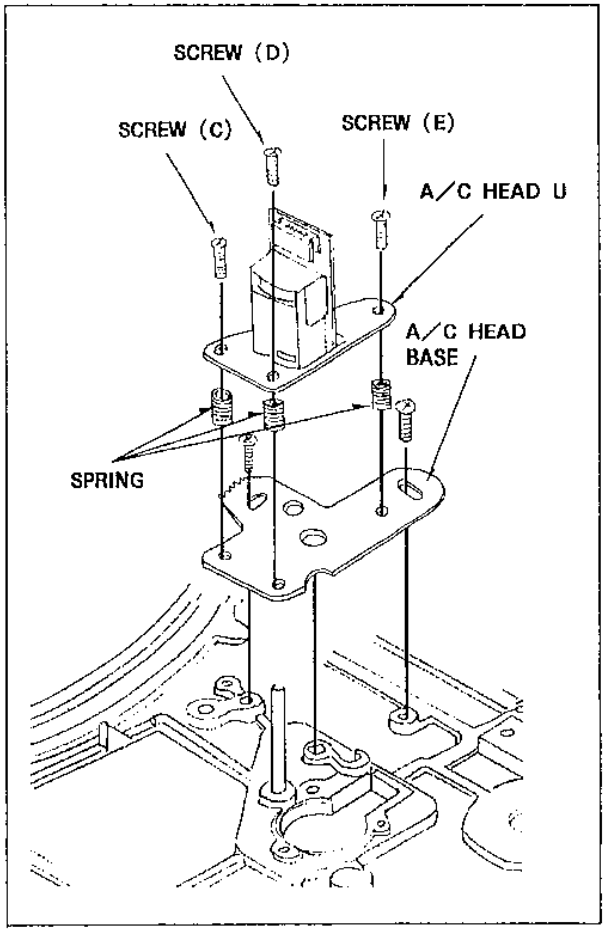



Fig.M4

## 2-4. Replacement of Full Erase Head Unit

1. Disconnect a connector (A).
2. Unscrew screw (F) then remove the FE Head.
3. FE Head Unit put into hole on the mechanical chassis and can be reinstalled by reversing the removal procedure.

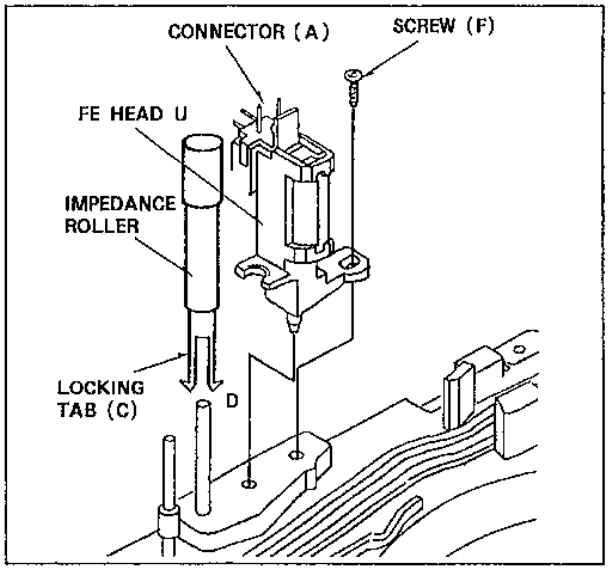



Fig.M5

## 2-5. Replacement of Capstan Rotor Unit and Stator Unit

1. Remove the Rotor Stopper.
2. Carefully lift up the Capstan Rotor from the Capstan Housing, taking care so as not loose the 2 Oil Seals.
3. Unscrew 3 screws (G) and remove the Capstan Stator Unit as shown in Fig.M6.
4. The Capstan Rotor and Stator can be reinstalled by reversing the removal procedure.

*<Note>*
*After reinstall the Capstan Rotor and Stator Units should be perform Mechanical adjustment.*
3-9. ADJUSTMENT of CAPSTAN HOUSING & STATOR
3-10. ADJUSTMENT of THRUST GAP
3-11. ADJUSTMENT of FG GAP

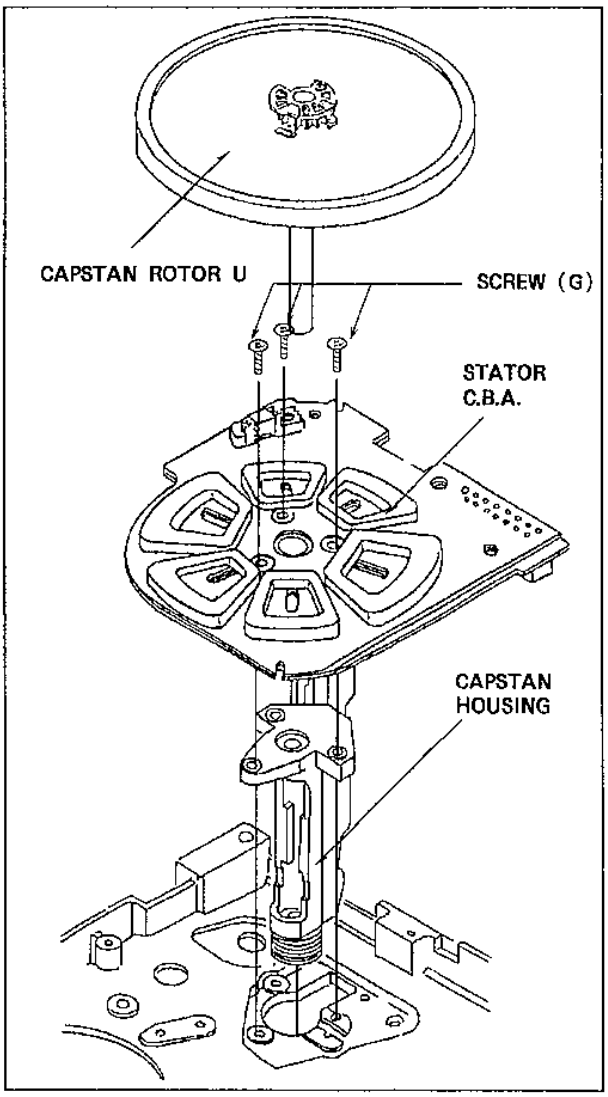



Fig.M6

## 2-6. Replacement of Impedance Roller Unit

1. Remove the Full Erase Head Unit with removal procedure(2-4).
2. Unlock then locking tab to direction of arrow mark as shown in Fig.M5 and remove the Impedance Roller Unit.
3. The Impedance Roller Unit can be reinstalled by reversing the removal procedure.

## 2-7. Replacement of Pinch Arm Unit

1. Unlock the locking tab on the Opener Piece and remove it from the shaft.
2. Remove the Pinch Arm Unit from the shaft.
3. The Pinch Arm Unit can be reinstalled by reversing the removal procedure.

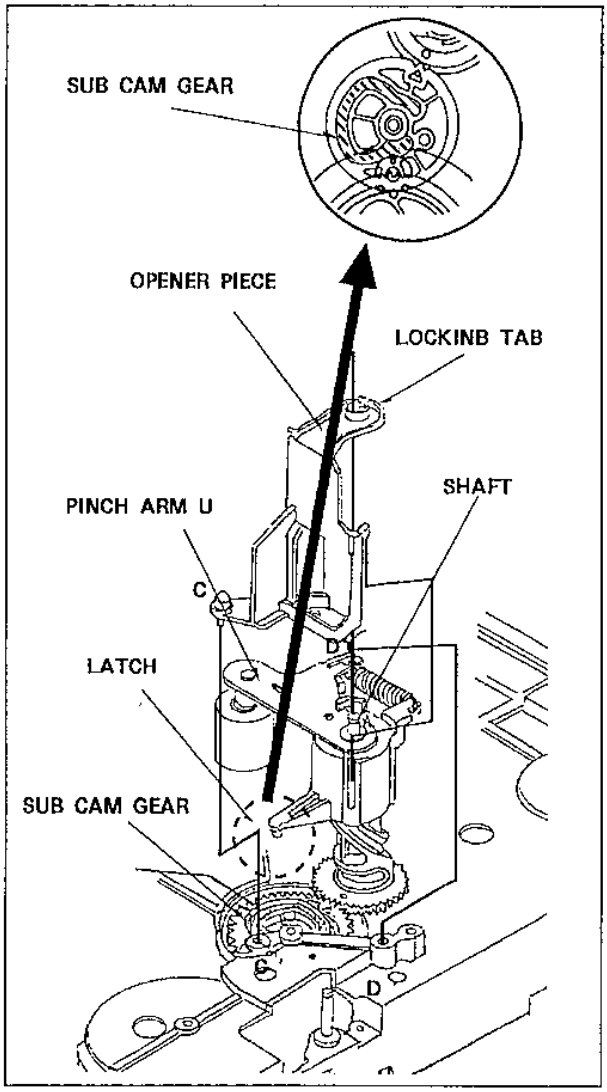



Fig.M7

## 2-8. Replacement of Take-up and Supply Reel Base Units

### A. Supply Reel Base Unit

1. Remove the Tension Band Unit on the Supply Reel Base Unit.
2. Push the Supply main Brake Arm to direction of arrow mark and unlock the locking tab on the Supply Reel Base then pull up the Supply Reel Base Unit as shown in Fig.M8.
3. The Supply Reel Base Unit can be reinstalled by reversing the removal procedure.

### B. Take-up Reel Base Unit

1. Push the Take-up Main Brake Arm to direction of arrow mark and unlock the locking tab on the top of Take-up Reel Base then pull out the Supply Reel Base Unit as shown in Fig.M8.

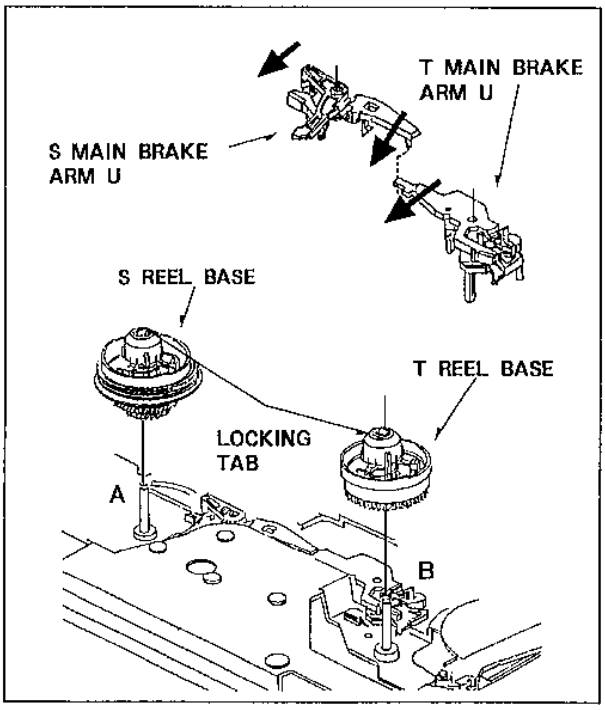



Fig.M8

## 2-9. Replacement of Take-up and Supply Brake Arm Unit.

1. Unlock the locking tab (A) to direction of arrow mark and lift up the Supply Brake Arm Unit.
2. Unlock the locking tab (B) and lift up the Take-up Brake Arm Unit.
3. Both Brake Arm Units can be reinstalled by reversing the removal procedure.
   However the boss (C) of the Supply Brake Arm Unit insert to hole (E) of mechanical chassis while pushing the Main Lever to direction of arrow mark as shown in Fig.M9. (expanded view)

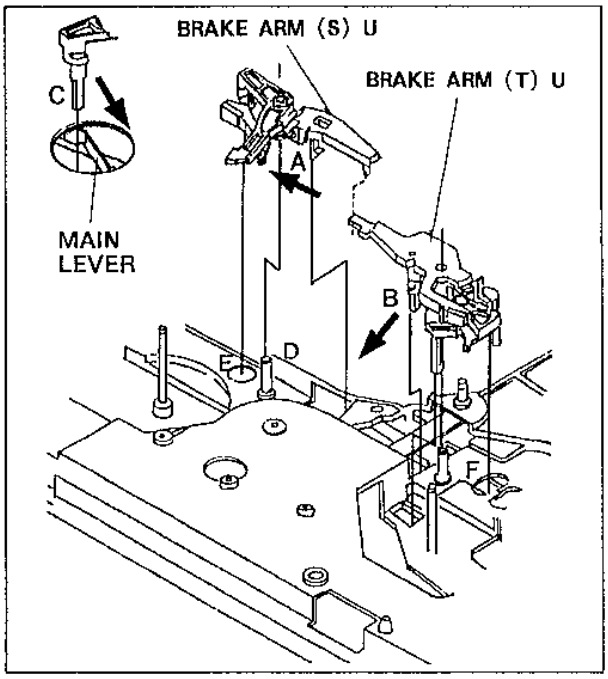



Fig.M9

## 2-10. Replacement of Tension Band Unit

1. Remove the cut washer (H) and lift up the Tension Arm Unit with the Tension Band and spring from the Tension Spring Arm.
2. Unlock the locking tab (A) to direction of arrow mark and remove the Tension Band from the Arm Unit.
3. Unlock the locking tab (B) and remove the Tension Band from the Tension Arm Unit.
4. The Tension Band Unit can be reinstalled by reversing the removal procedure.

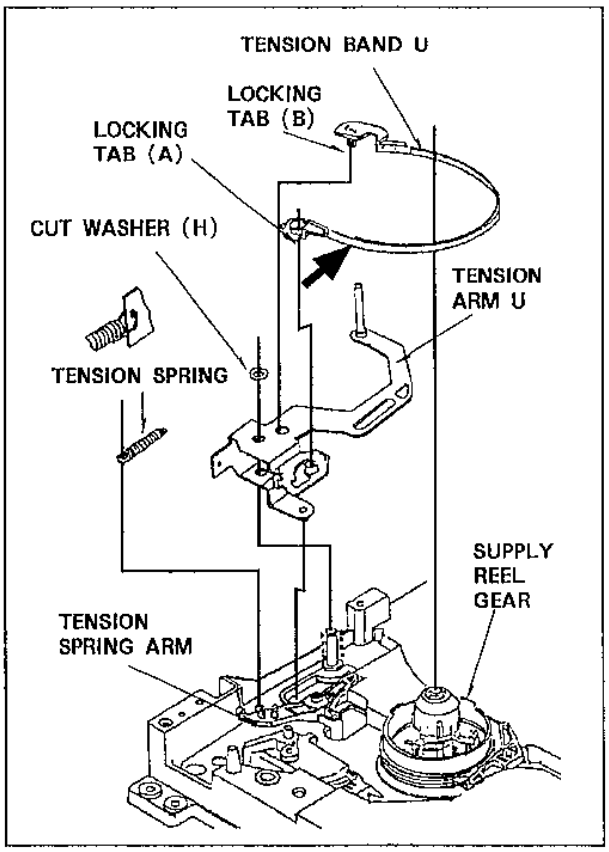



Fig.M10

## 2-11. Replacement of Loading Motor Unit

1. Unscrew screw (I).
2. Unlock the locking tab (A) from the top of the mechanical chassis.
3. Lift up the Loading Motor Bracket and push it to direction of arrow mark as shown in Fig.M11.
4. When reinstall the Loading Motor Unit, insert the locking hole (B') of Loading Motor Bracket Unit to shaft (B) on the mechanical chassis. Also a hole (C) of the loading Motor Unit must be matched to the shaft (C') as shown in Fig.M11.

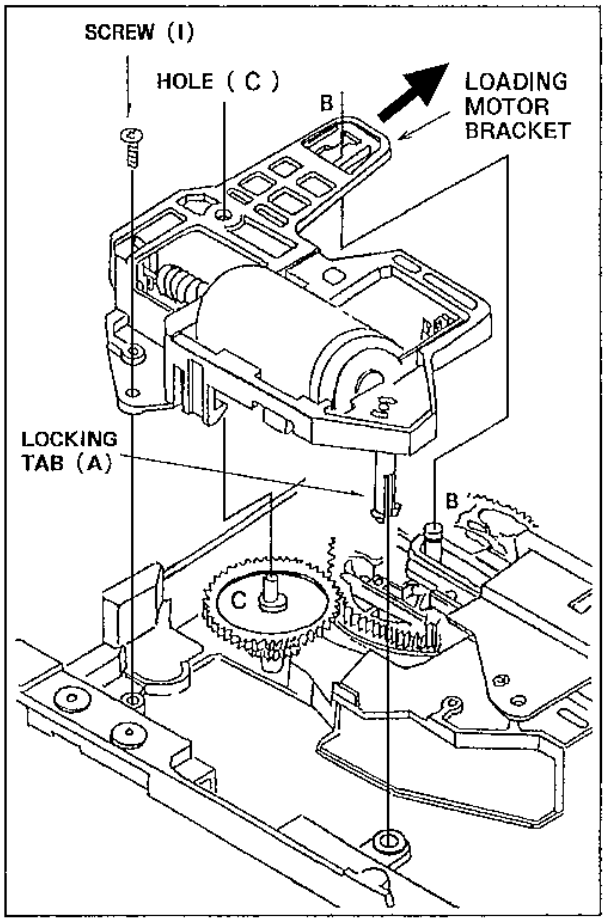



Fig.M11

## 2-12. Replacement of Cleaner Roller Unit

1. Unlock the locking tab (A) as shown in Fig.M12. and lift it up.
2. The Cleaner Roller Unit can be reinstalled by reversing the removal procedure.

3. Replacement of the Cleaner Rubber Unit.
   Hold the Cleaner Roller Unit and unlock the locking tab (B) then lift it up.

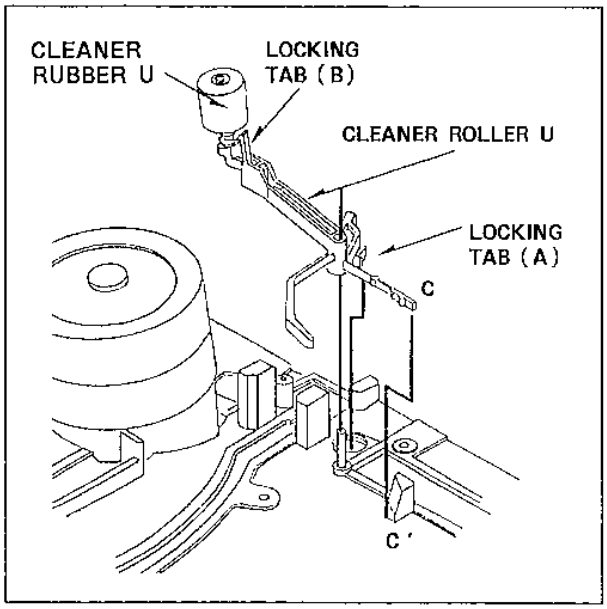



Fig.M12

## 2-13. Replacement of SS Brake Base Unit and Timing Belt

1. Remove the Timing Belt.
2. Unscrew (J) and (K) then remove SS Brake Base Unit.
3. SS Brake Unit and Timing Belt can be reinstalled by reversing the removal procedure.

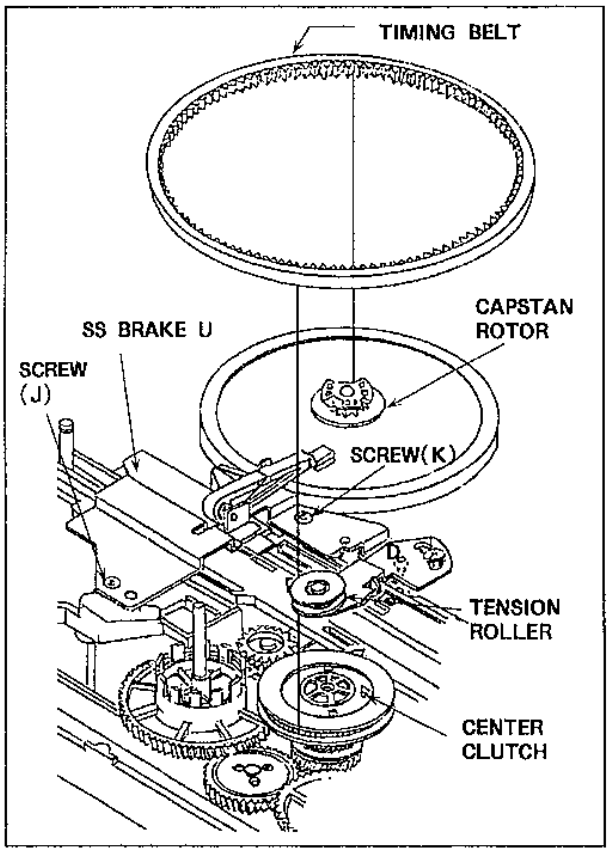



Fig.M13

## 2-14. Replacement of Supply & Take-up Inclined Base Unit

1. Remove SS Brake Unit, Main Lever Unit and Supply and Take-up Loading Arm Unit refer to SECTION 2. and 3. in this service manual.
2. Remove the Inclined Holder base (A) from back side of mechanism chassis.
3. Remove the Supply and Take-up Inclined Base Units.
4. The both Inclined Base Units can be reinstalled by reversing the removal procedure.

*<NOTE>*
*After reinstall the Inclined Base Unit should be perform Mechanical adjustment.*

3-2. FINE ADJUSTMENT of P2 and P3 POSTS
3-5. FINE ADJUSTMENT of A/C HEAD HEIGHT
3-6. HORIZONTAL POSITION ADJUSTMENT of A/C HEAD

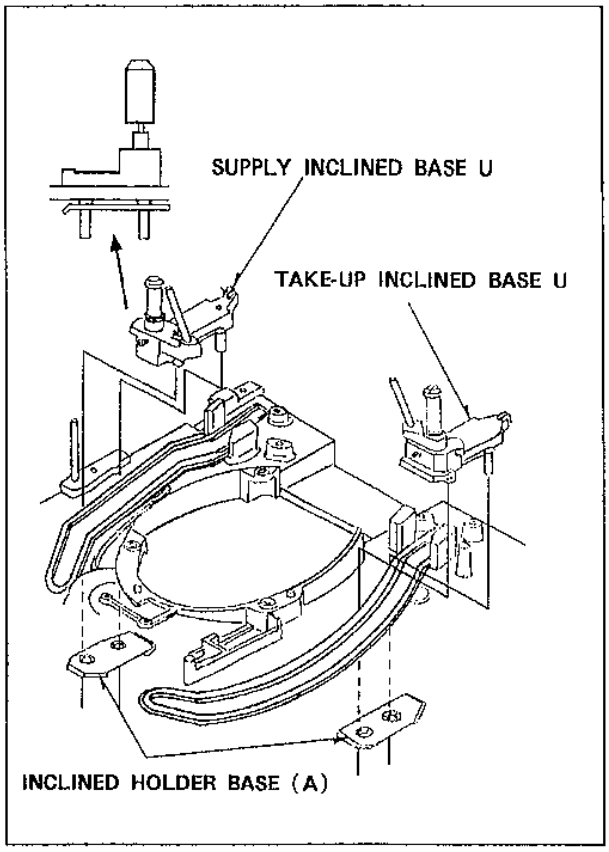



Fig.M14

# SECTION 3
# MECHANICAL ADJUSTMENT PROCEDURE

## 3-1. Coarse Adjustment of Tape Guide Post Height

1. Remove the Top Plate and Cassette Holder.
2. Turn the Loading Motor until the unloading completes.
3. Loosen the fixing screw of P2 and P3 Posts.
4. Rotate the P2 and P3 Posts clockwise to the end.
5. Rotate the P2 and P3 Posts twice counter-clockwise as shown in Fig.M15.
6. Install the Cassette Holder and Top Plate.
7. Playback the normal tape and make sure that the edge of not curing at the bottom or top end of the P1,P2,P3 and P4 Posts as shown in Fig.M17.

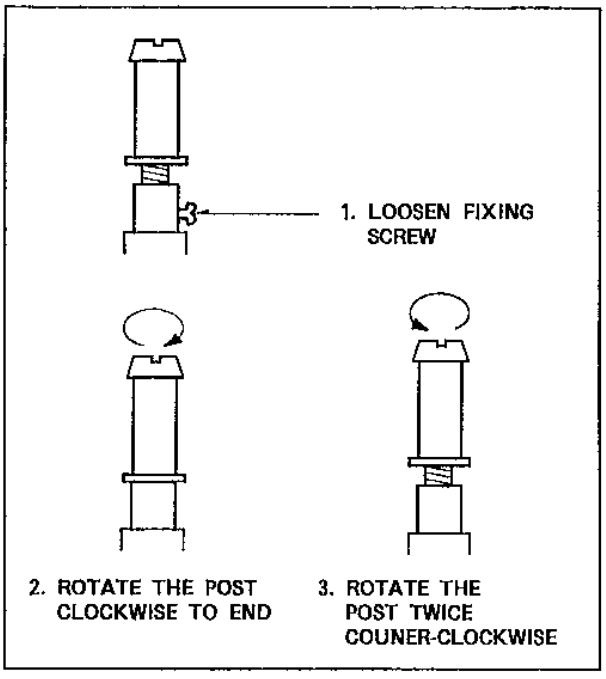



Fig.M15

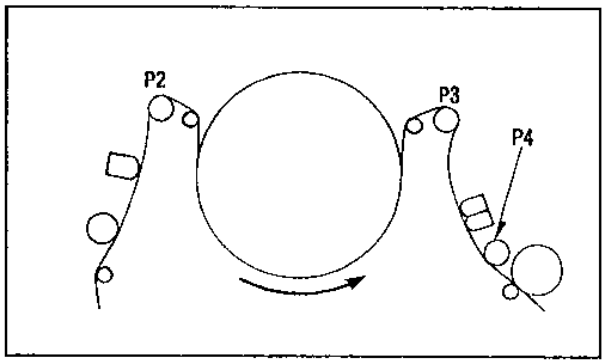



Fig.M16

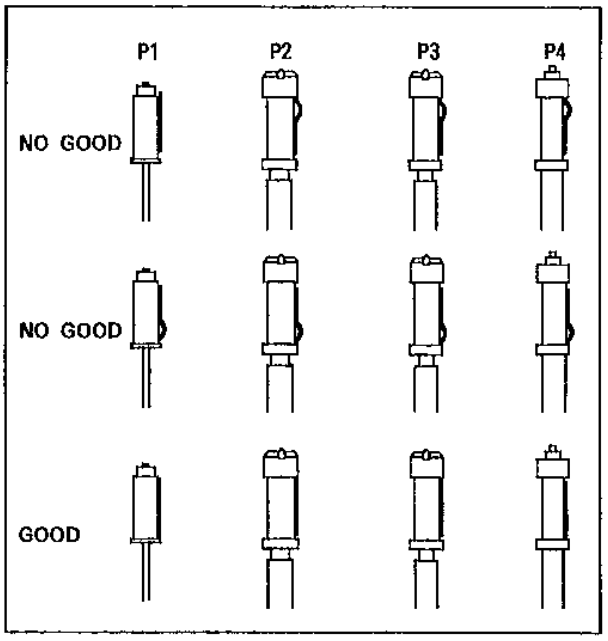



Fig.M17

## 3-2. Fine Adjustment of P2 and P3 Posts

1. Connect the oscilloscope to the Test Point of the HEAD AMP (Video RF Envelope) and the head switching pulse as a triggering signal.

*<NOTE>*
*TEST POINT please refer to the MECHANICAL ADJUSTMENT INFORMATION which are shown in service manual for each model.*

2. Playback the 2nd portion of the alignment tape.
3. Press the tracking control button on the Front panel and adjust for maximum Video RF envelope.
4. If the RF envelope appears like example "A" or "B" in Fig.M18 then adjustment of the tape guide post (P3:Exit) is necessary.
5. Adjust the P3 post with the post adjustment screwdriver so that the RF envelope waveform at the exit portion becomes flat as shown in Fig.M18.
6. If the RF envelope appears like example "C" or "D" in Fig.M18 then adjustment of the tape guide post (P2:Entrance) is necessary.
7. Adjust the P2 post with the post adjustment screwdriver so that the RF envelope waveform at the entrance portion becomes flat as shown in Fig.M18.

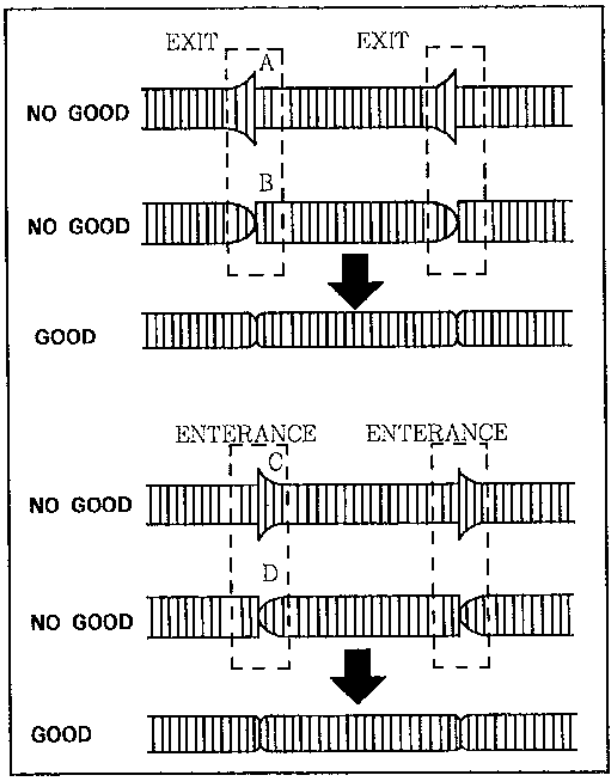



Fig.M18

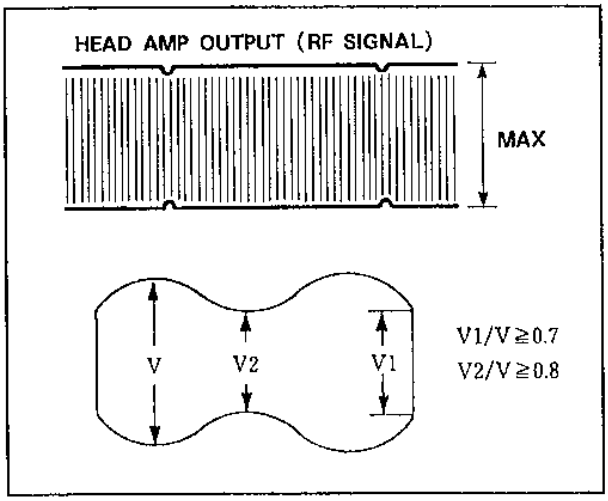



Fig.M19

## 3-3. Coarse Adjustment of A/C Head Height (1)

*<NOTE>*
*This procedure should be performed only when the A/C Head is replaced.*

1. Playback the normal tape.
2. Turn the 3 screws (A)(B)(C) mutually so that lower edge of tape running at lower edge of A/C Head and confirm a space as much as possible to flat between the A/C Head Unit and the A/C Head Base.

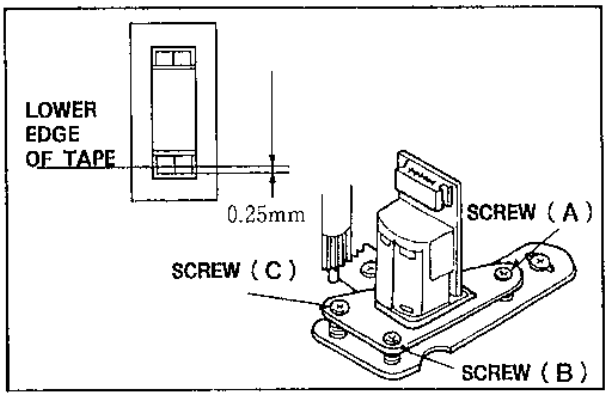



Fig.M20

## 3-4. Coarse Adjustment of A/C Head Height (2)

1. Playback the normal tape.
2. Rotate the screw (A) as shown in Fig.M20 until the wrinkle appears on the lower edge of tape at P4 Post.
3. Rotate the screw (B) until the wrinkle just disappear on the lower edge of tape at P4 Post.

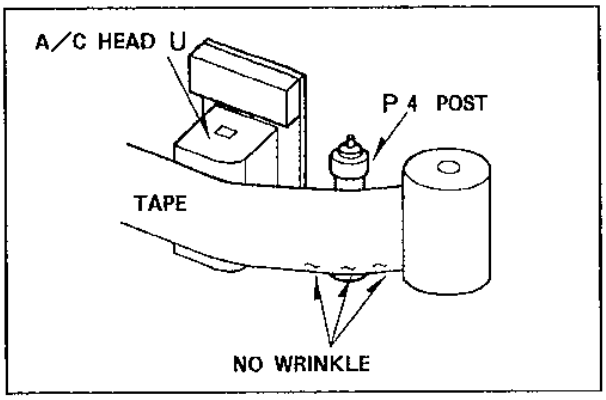



Fig.M21

## 3-5. Fine Adjustment of A/C Head Height

1. Connect the oscilloscope to the Audio output.
2. Playback the 2nd portion of the alignment tape.
3. Rotate the screw (C) so that audio signal becomes maximum.

<When moving the A/C Head up>

1. Rotate the screw (A) counter-clockwise until the wrinkle appears on the lower edge of tape at P4 Post.
2. Rotate the screw (B) counter-clockwise until just disappears on the lower edge of tape at P4 Post.
3. Rotate the screw (C) counter-clockwise until the audio signal is maximized.

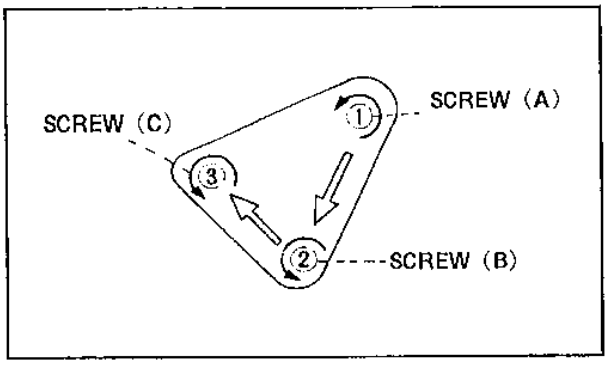



Fig.M22

<When moving the A/C Head down>

1. Rotate the screw (B) clockwise until the wrinkle appears on the lower edge of tape at P4 Post.
2. Rotate the screw (A) clockwise until the wrinkle just disappear on the lower edge of tape at P4 Post.
3. Rotate the screw (C) clockwise until the audio signal is maximized.

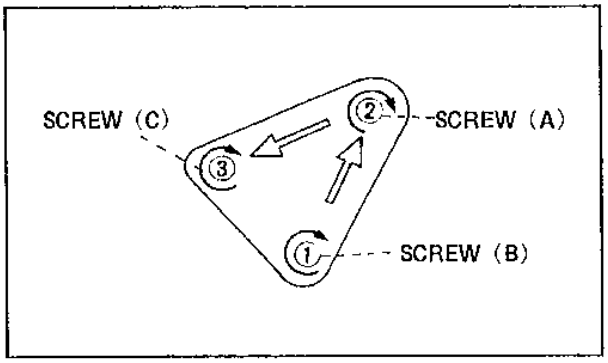



Fig.M23

## 3-6. Horizontal Position Adjustment of A/C Head.

*<NOTE>*
*TEST POINT and JUMPER WIRE position, please refer to the MECHANICAL ADJUSTMENT INFORMATION which are shown in service manual for each model.*

1. Set the tracking control into the center fix position by connect a jumper wire on the MAIN C.B.A.
2. Connect the oscilloscope to the Audio output, Video RF envelope on the Head Amp test point and head switching pulse on the Head Amp test point as for triggering.
3. Playback the 4th portion of the alignment tape.
4. Loosen the 2 screws (D)(E).
5. Adjust the A/C Head Base (F) so that the phase of audio drop-out and RF video drop-out becomes the same as possible. Fig.M24.
6. Playback the 2nd portion of the alignment tape.
7. Adjust the A/C Head Base (F) until the video RF signal is maximized.
8. Carefully tighten screw (D) with hold the A/C Head Base position with the Fine Adjustment Gear Driver then tighten screw (E).

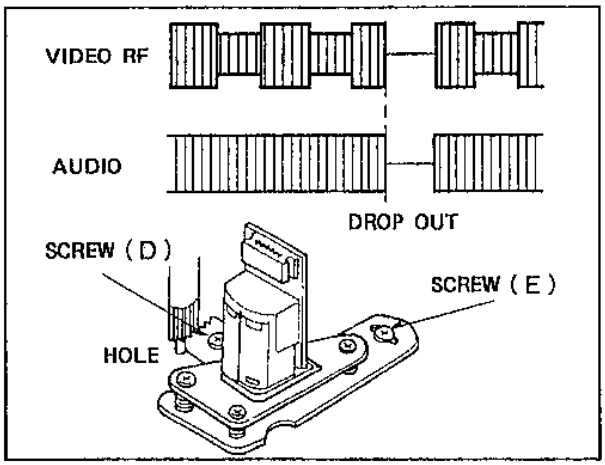



Fig.M24

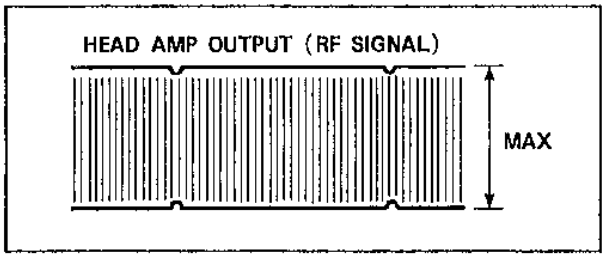



Fig.M25

## 3-7. Adjustment of Tension Post Position

1. Remove the Top Plate and Cassette Holder.
2. Turn the Loading Motor until the loading completes.
3. Adjust the hole of the Tension Band Unit by Hex wrench so that the left edge of the Impedance Roller and Tension Arm Unit as shown in Fig.M26.

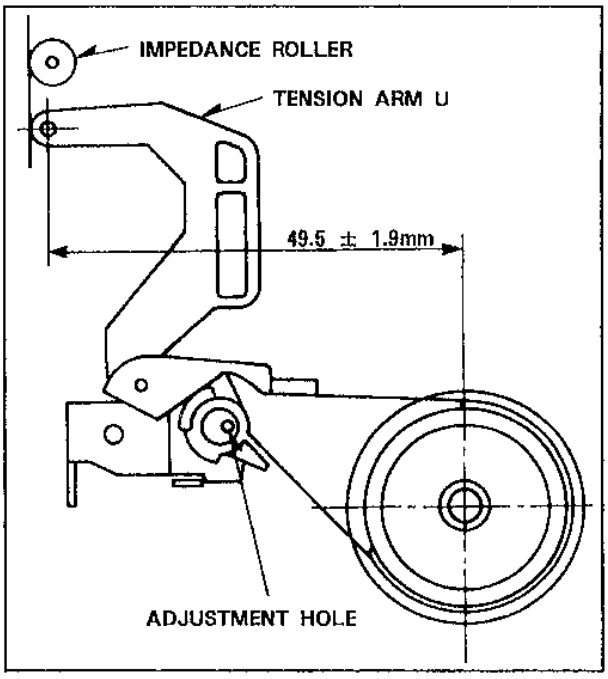



Fig.M26

## 3-8. Adjustment of Back Tension

1. Playback the cassette tape from the begging of tape and wait until tape movement has stabilized.
2. Insert the back tension meter into the path of the tape and confirm the back tension to be within specification as shown in Fig.M27.
3. If back tension is not in the specification, change the spring notch as shown in Fig.M28.

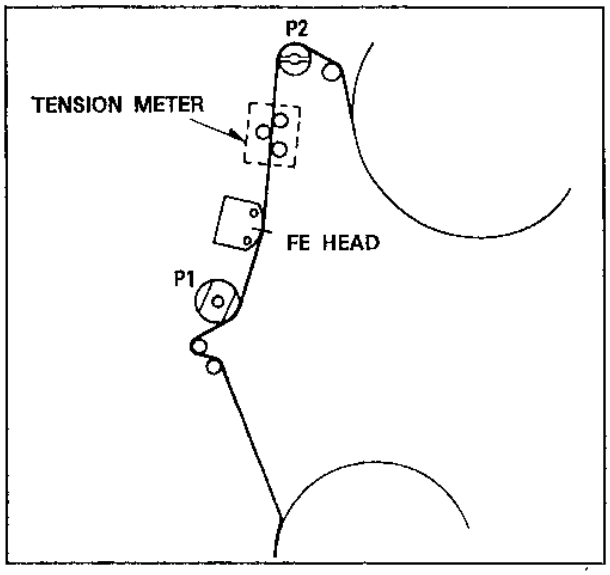



Fig.M27

*<NOTE>*
*Specification of Back Tension, please refer to the MECHANICAL ADJUSTMENT INFORMATION which are shown in service manual for each model.*

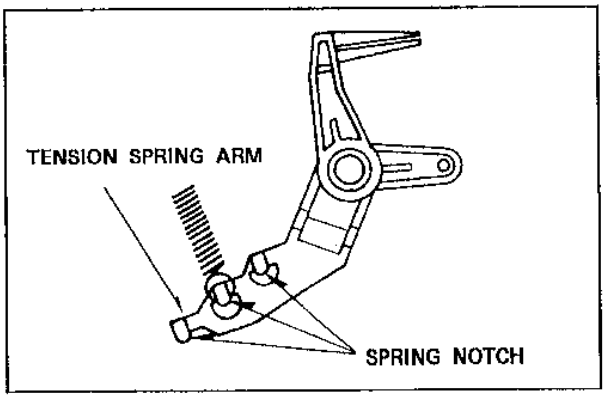



Fig.M28

## 3-9. Adjustment of Capstan Housing & Stator.

1. Install the Capstan Housing into the mechanical chassis and place the Capstan Stator into position.
2. Loosely tighten 3 screws (G).
3. Insert the Center Fixing Tool (VFK0851) as shown in Fig.M29.
4. Tighten 3 screws (G).
5. Remove the Center Fixing Tool.

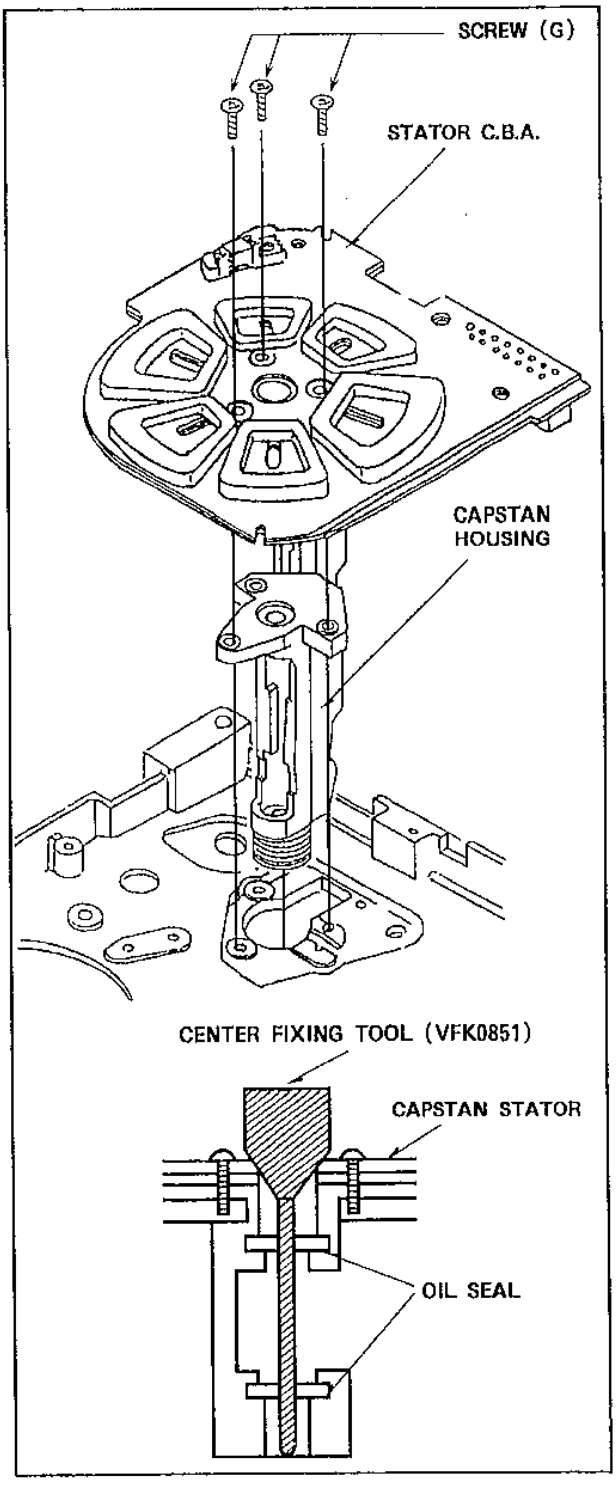



Fig.M29

## 3-10. Adjustment of Thrust Gap

1. Turn the Thrust Adjustment Screw clockwise to until the Capstan Rotor just separate from the Capstan Stator while rotating the Capstan Rotor by hand.
2. Turn the Thrust Adjustment Screw clockwise to 180 degrees from point at step 1.
3. Set the 2 Oil Seal to edge of the Capstan Housing as show in Fig.M30.

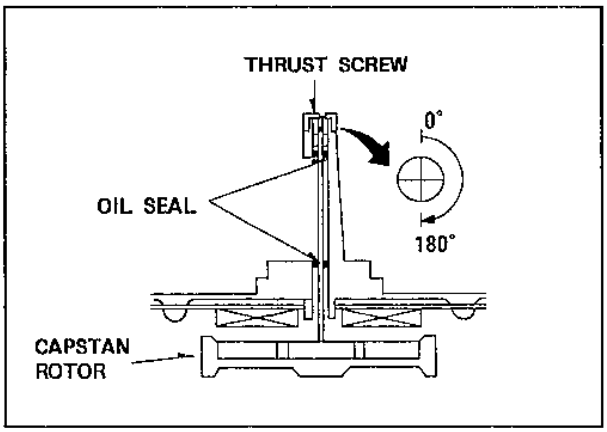



Fig.M30

## 3-11. Adjustment of FG GAP

1. Loosen screw (H) and set the Fine Adjustment Screw Driver in the hole on the Capstan Stator Unit.
2. Adjust the gap between FG Head and the Capstan Rotor.
3. After adjustment, tighten a screw (H).

*<NOTE>*
*Specification of FG GAP, please refer to the MECHANICAL ADJUSTMENT INFORMATION which are shown in service manual for each model.*

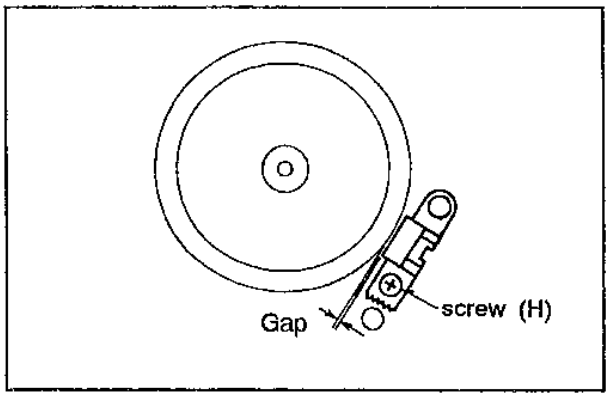



Fig.M31

## 3-12. Pressing Force Confirmation of the Pressure Roller

1. Playback the end portion of the 120 minutes tape.
2. Set the Fan type tension gauge to point (A) and push to direction indicated by the arrow (B) as shown in Fig.M32.
3. Confirm that reading of tension gauge is in specification at momentary stop the tape running.

*<Note>*
*Specification of PRESSING FORCE, please refer to the MECHANICAL ADJUSTMENT INFORMATION which are shown in service manual for each model.*

*If the pressing force is not in specification, change the pressure spring.*

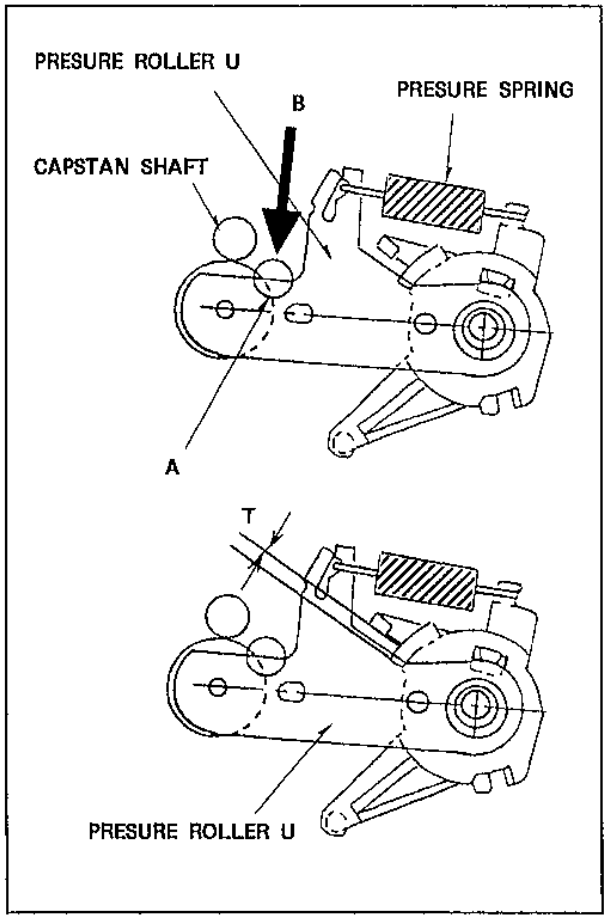



Fig.M32

# SECTION 4
# ASSEMBLY & PHASE ADJUSTMENT PROCEDURE

## 4-1. Assembly Procedures of Mechanism

The gear phase alignment is performed in the cassette down position and is crucial for the K-Mechanism to operate correctly.

1. Top view of gear phase alignment marks.
   There are alignment marks on the pinch cam gear and sub cam gear. there is one alignment mark on the carriage gear.

2. Bottom view of gear phase alignment marks.
   There are alignment marks on take-up loading gear and supply loading gear. There is an additional mark on the take-up loading gear that aligns with the mark on the main lever. There are alignment marks on the main cam gear and the sub cam gear. The mode switch gear mark aligns with a notch in the mode switch frame.

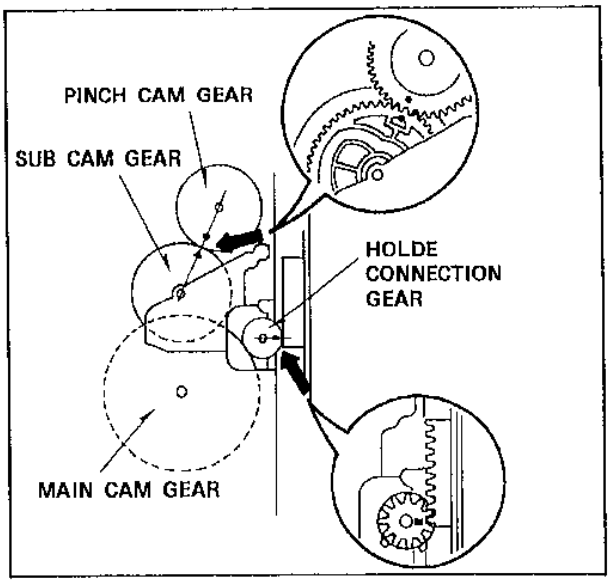



Fig.M33

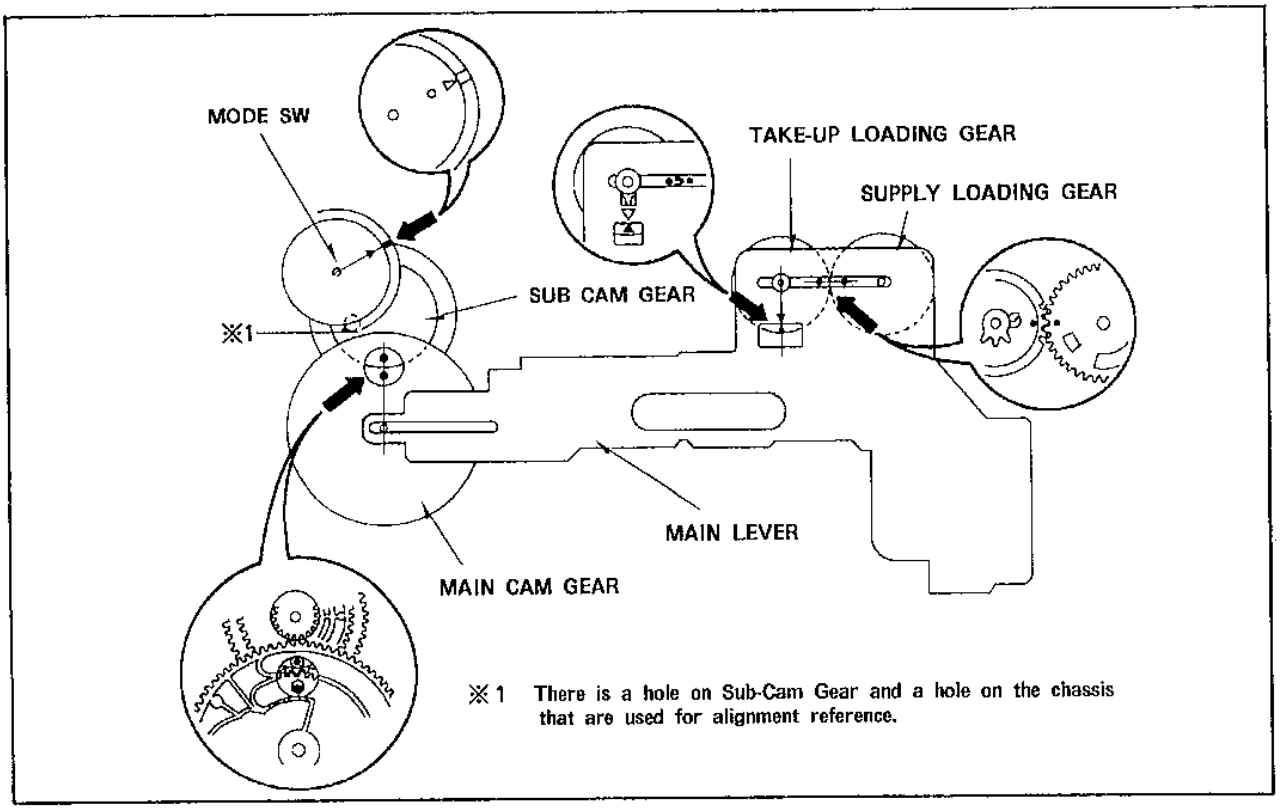

MODE SW
TAKE-UP LOADING GEAR
SUPPLY LOADING GEAR
SUB CAM GEAR
※1
MAIN LEVER
MAIN CAM GEAR
※1 There is a hole on Sub-Cam Gear and a hole on the chassis that are used for alignment reference.

Fig.M34

## 4-2. Assembly of parts on the Top Chassis

1. Install the Pinch Cam Gear onto shaft (A) and the P5 Arm Unit onto shaft (B).
2. Install the P5 Stopper Base with the cut washer (D) and screw (C).
3. Install the P5 Stopper on the P5 Stopper Base with latch (E).

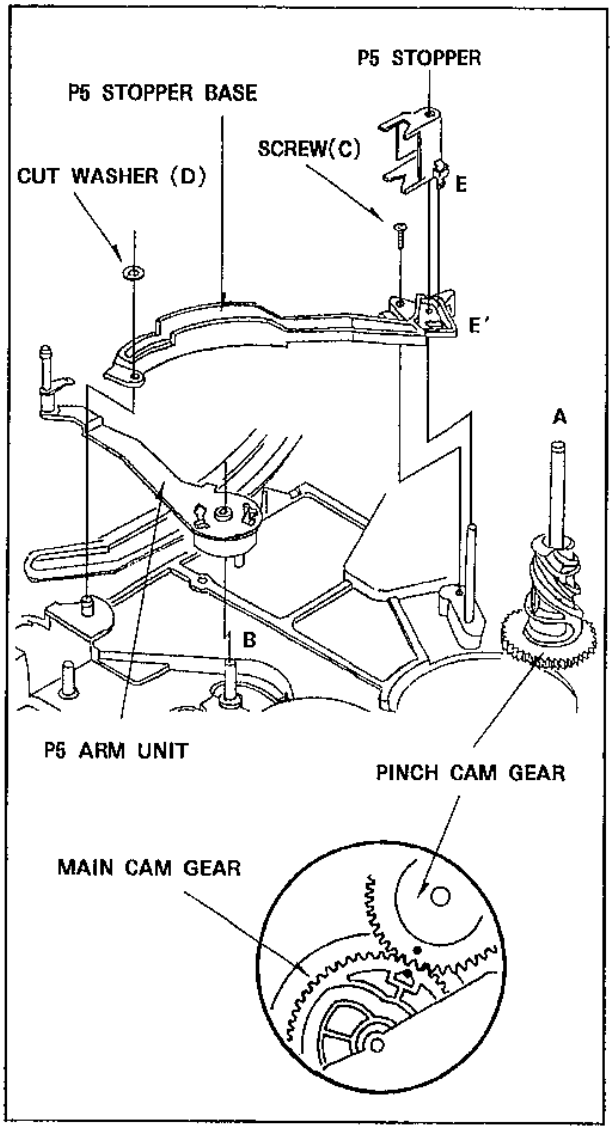



Fig.M35

## 4-3. Assembly of parts on the Bottom Chassis

1. Install the Idler Arm Unit onto shaft (F).
2. Install the Take-up and Supply Reel Gears onto shaft (G) and (H).
3. Install the Idler Regulator Level onto shaft (I) then install the Direct Lever.
4. Install the Center Clutch onto shaft (F) with the cut washer.

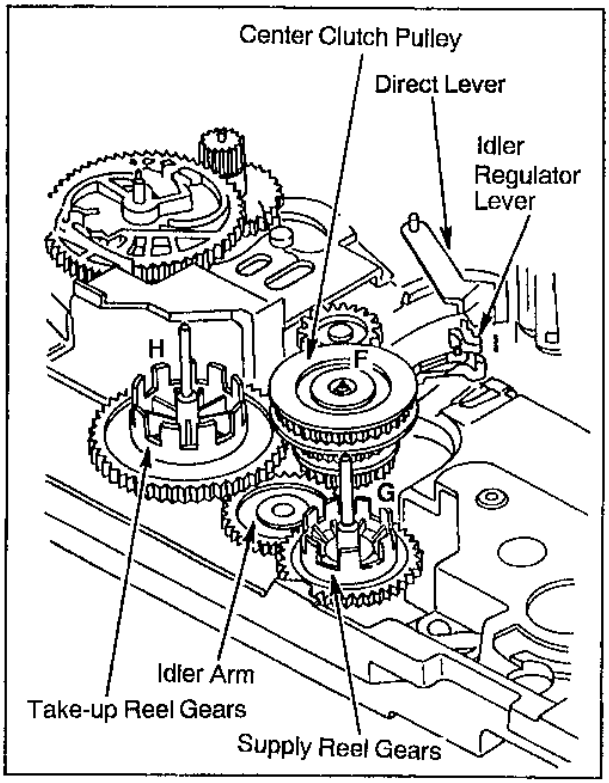



Fig.M36

## 4-4. Assembly of Main Cam Gear and Sub Cam Gear

1. Install the Sub Cam Gear on to shaft (J) so that the chassis hole aligns with hole in the Sub Cam Gear.
2. Rotate the Holder Connection Gear to position of arrow mark as shown in Fig.M37.
3. Install the Main Cam Gear onto shaft (K) so that the hole of the Main Cam Gear aligns with the hole in the Sub Cam Gear. Also insert the boss of the Take-up Tension Regulator Arm into the slot on the Main Cam Gear.

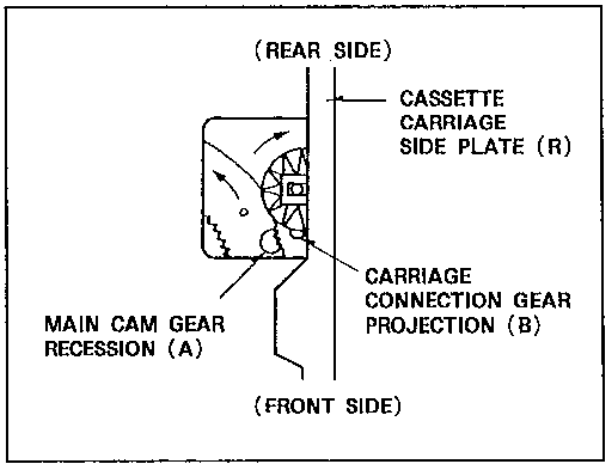



Fig.M37

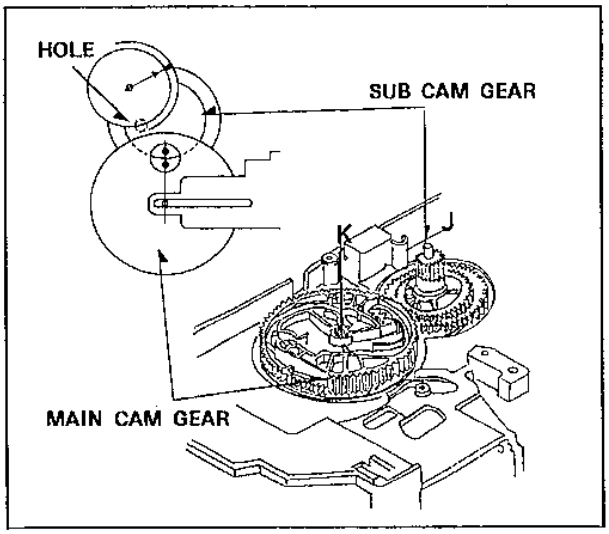



Fig.M38

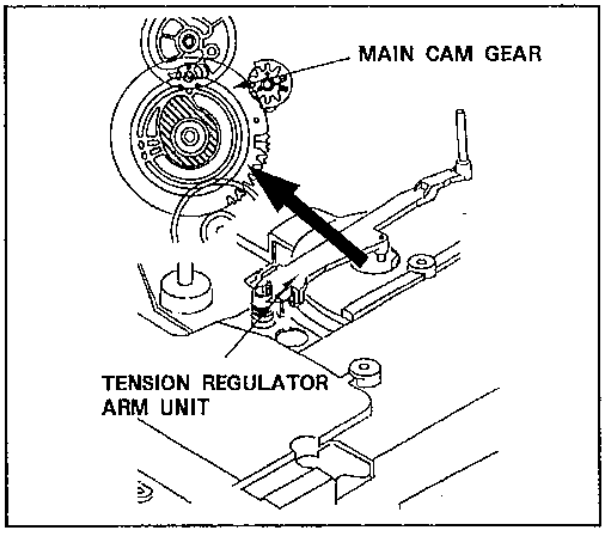



Fig.M39

## 4-5. Assembly of Mode Switch

1. Align a triangle mark on the Mode Switch Gear with the notch on the Mode Switch frame.
2. Confirm the Main and Sub Cam Gears aligned properly then install the Mode Switch with screw (L).

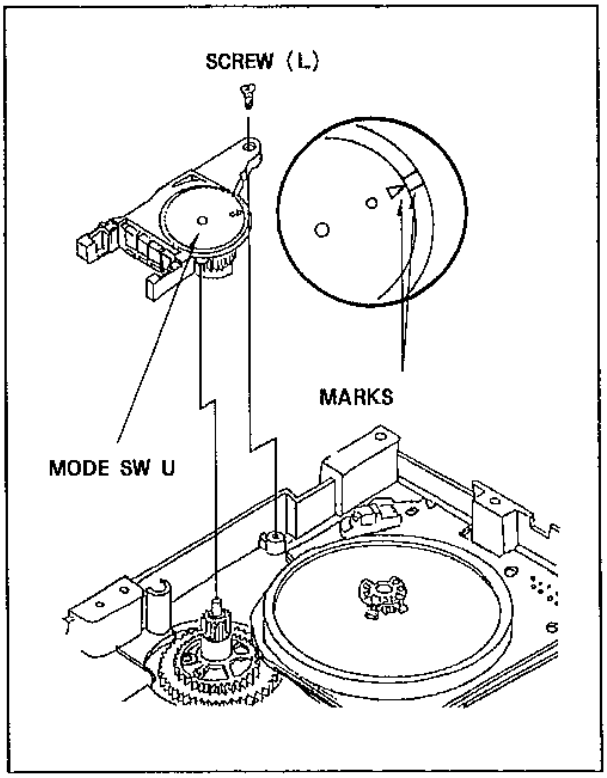



Fig.M40

## 4-6. Assembly of Take-up and Supply Loading Gears.

1. Install the Supply Loading Gear onto the shaft (S).
2. Install the Take-up Loading Gear onto the shaft (T) so that hole on the Take-up Loading Gear align with the hole on the Supply Loading Gear.
3. Install the Supply Loading Arm onto shaft of the Supply Inclined Base with washer.
4. Insert the Take-up Loading Arm onto shaft of the Take-up Inclined Base with washer.

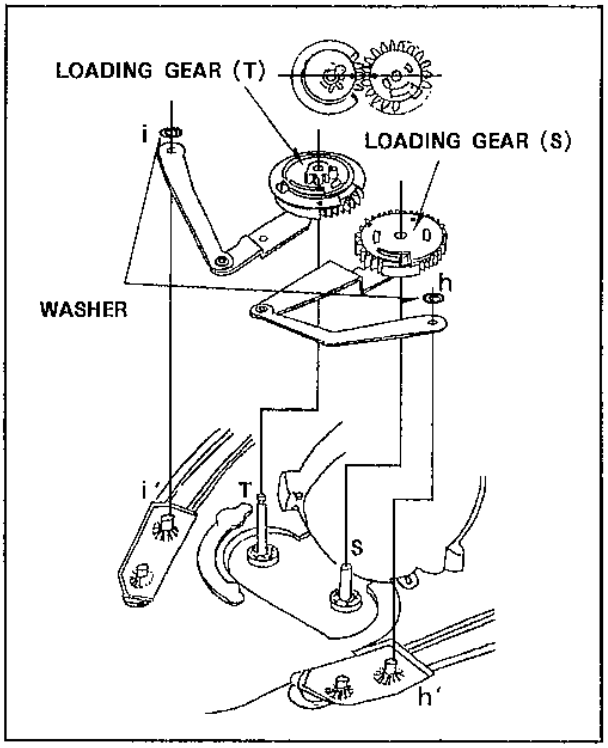



Fig.M41

## 4-7. Assembly of Main Lever

1. Install the Main Lever Arm checking that the boss of arms and shafts are in correct position and mark on the Main Lever Arm is aligned with mark on the Take-up Loading Gear.
2. Insert the 2 cut washer as shown in Fig.M42.

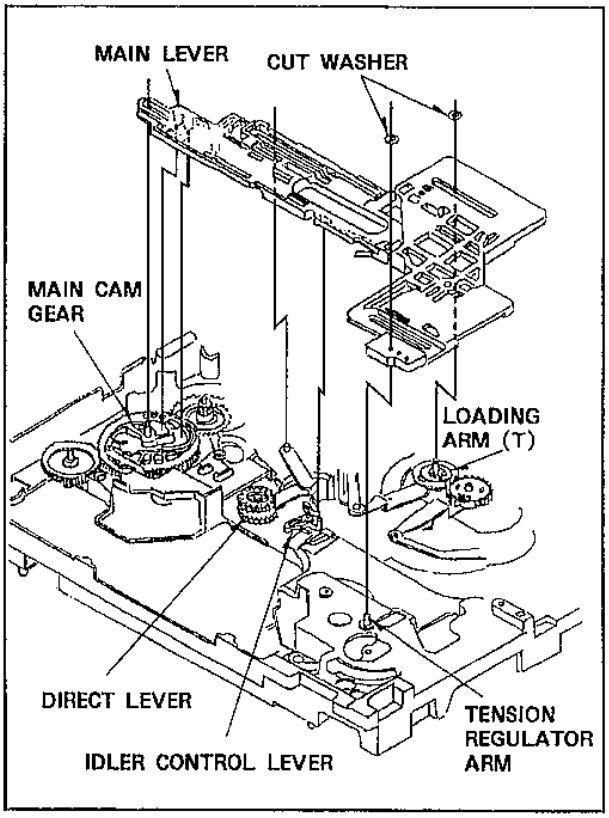



Fig.M42

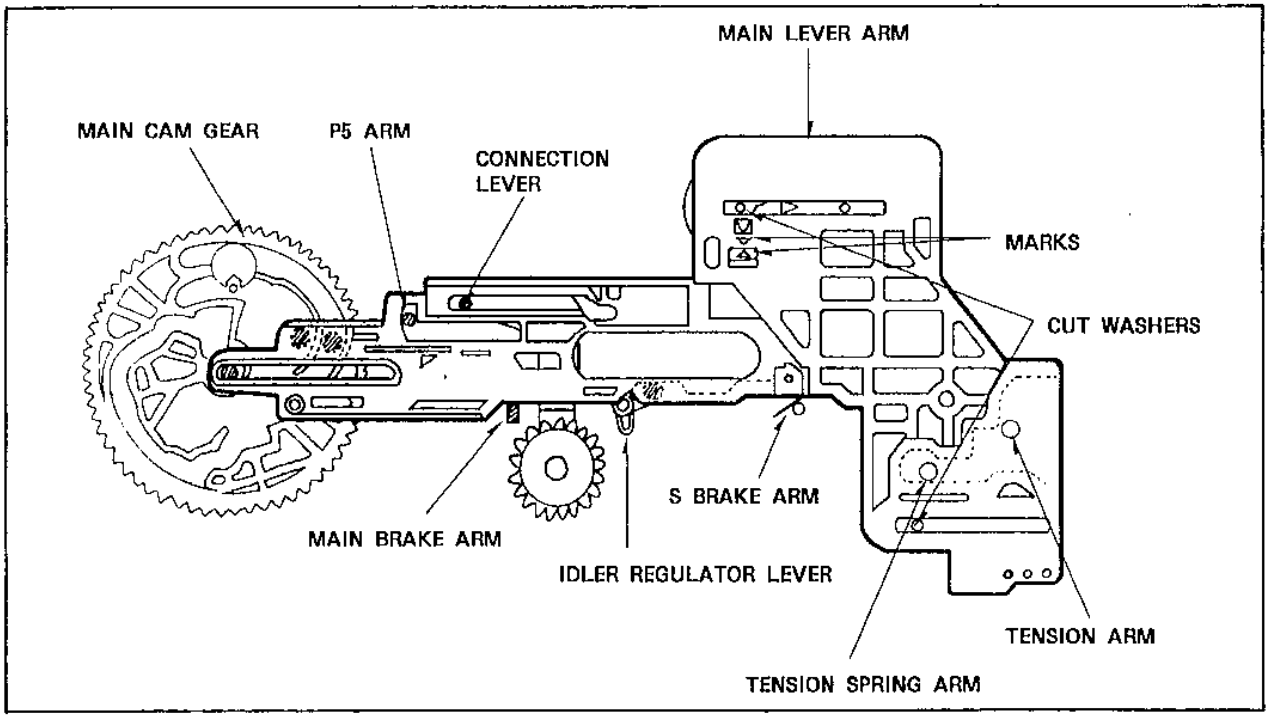



Fig.M43

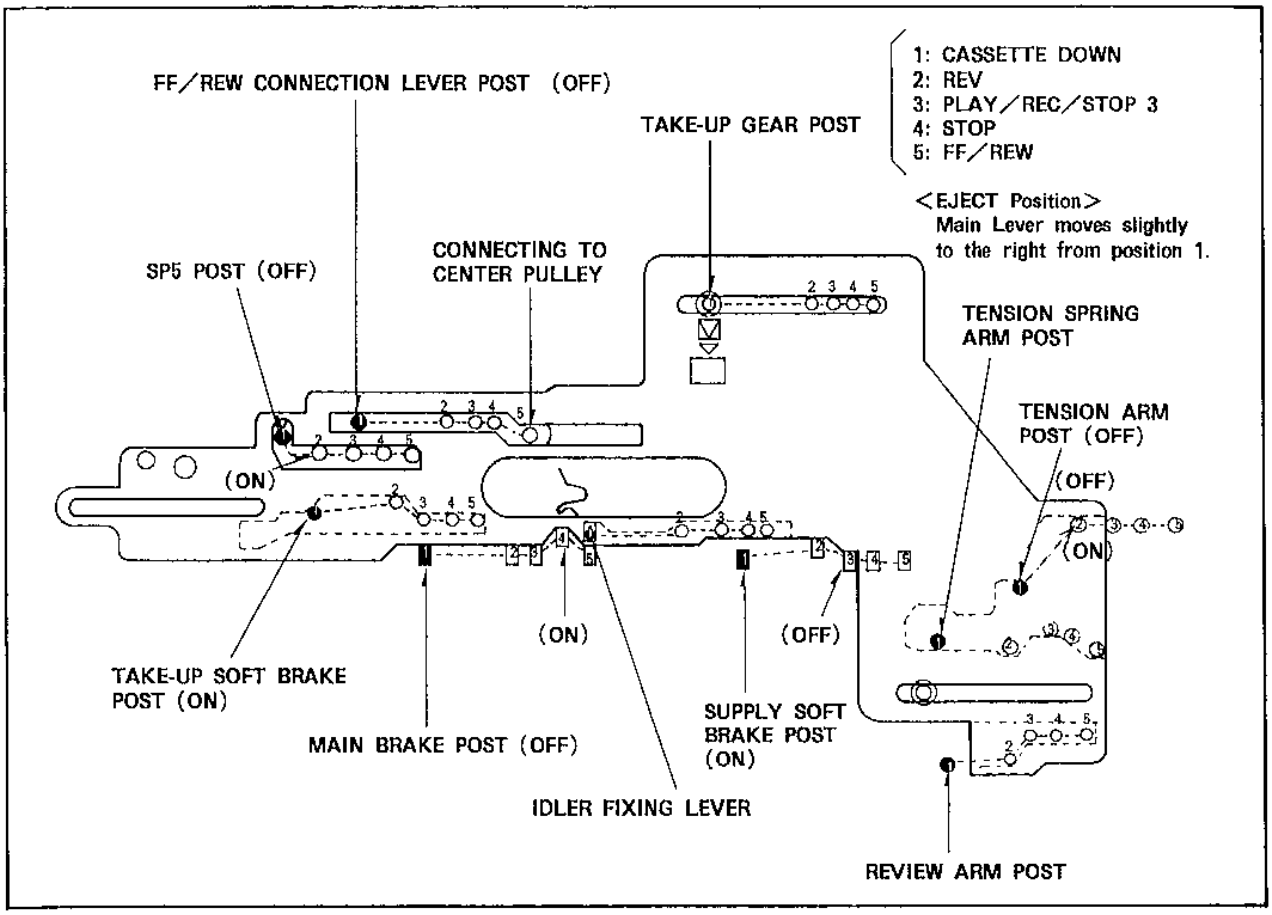



Fig.M44

## 4-8. Reinstall of the Cassette Compartment

1. Push the locking tabs to direction as shown in Fig.M45 and remove the Top Plate.

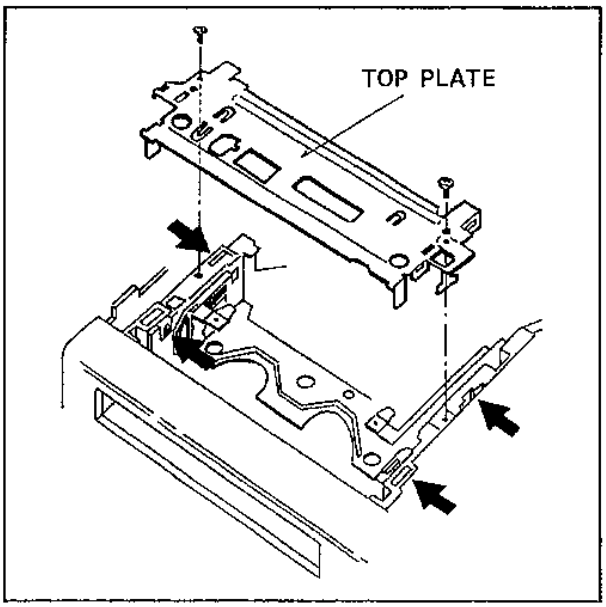



Fig.M45

2. Lift up the Cassette Holder Unit as shown in Fig.M46.

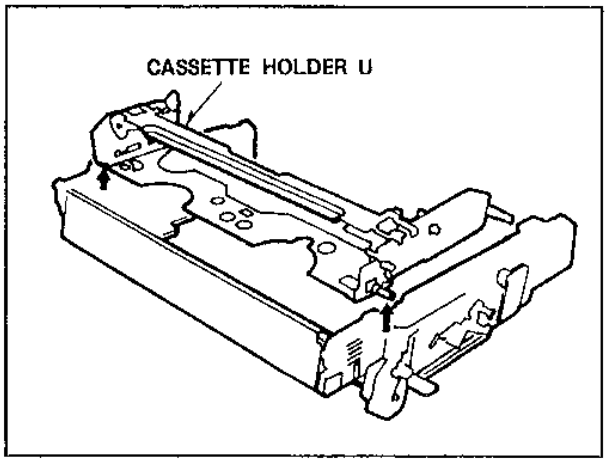



Fig.M46

3. Press the Wiper Arm to direction indicated by arrow mark so that the Wiper Arm comes to cassette down position completely as shown in Fig.M48. Confirm a triangle mark on the Wiper Arm aligns with the mark on the Rack (B) Unit.

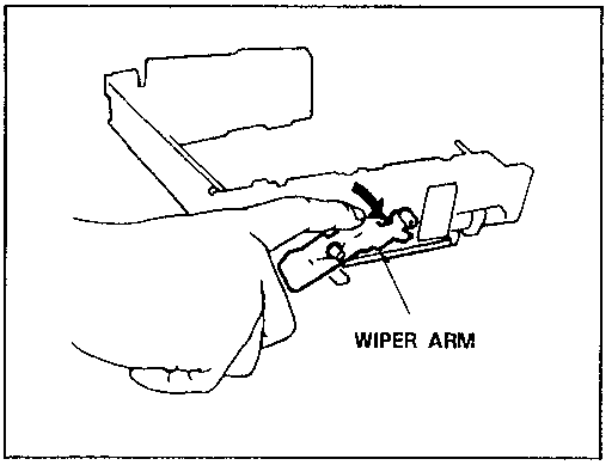



Fig.M47

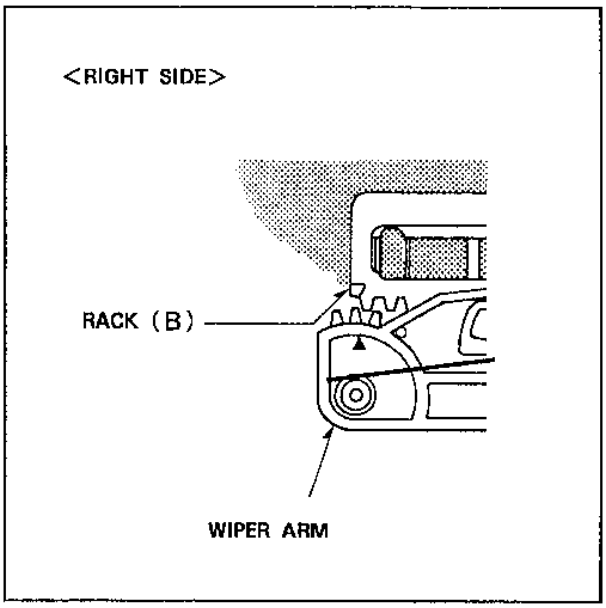



Fig.M48

4. Install the cassette compartment (without cassette holder) to the mechanical chassis so that mark on the Holder Connection Gear should line up with first tooth of the Rack Gear as shown in Fig.M49.

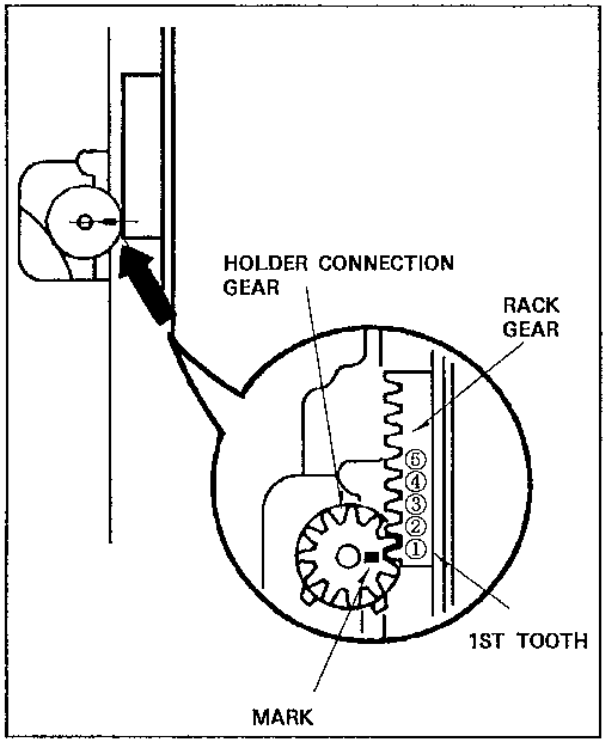



Fig.M49

5. Tighten 4 screws as shown in Fig.M50.
6. Manually move the loading mechanism toward the EJECT position by turn the Loading Motor and stop just before completion, so that the Wiper Arm straight up.
7. Install the Cassette Holder Unit in the Cassette Compartment Base as shown in Fig.M51.
8. Install the Top Plate on the Cassette Compartment Base.
9. Manually confirm that front loading and main loading run smoothly.

*<NOTE>*
*For proper front loading, the guide pin on the opener lever should follow the upper track of the right side panel as shown in Fig.M52.*

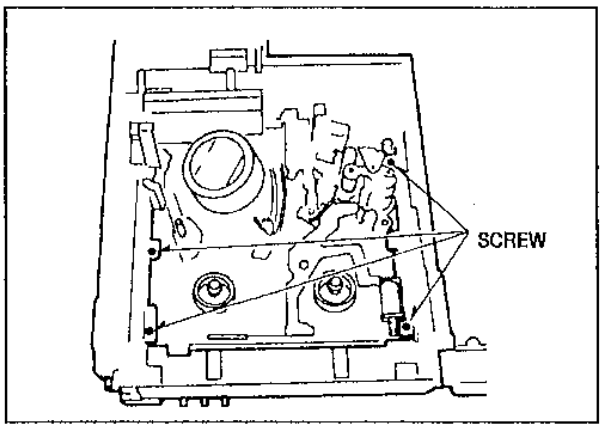



Fig.M50

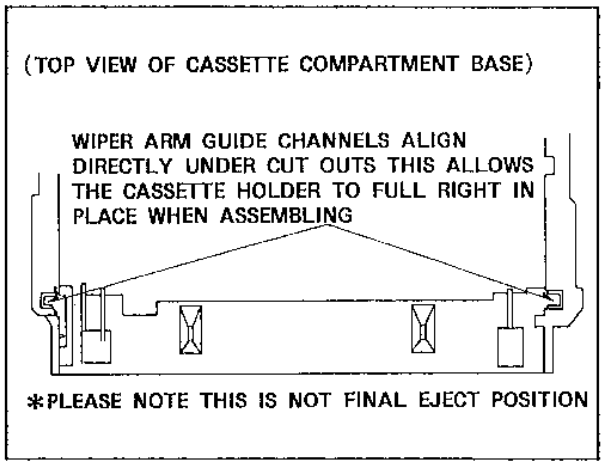

(TOP VIEW OF CASSETTE COMPARTMENT BASE)
WIPER ARM GUIDE CHANNELS ALIGN DIRECTLY UNDER CUT OUTS THIS ALLOWS THE CASSETTE HOLDER TO FULL RIGHT IN PLACE WHEN ASSEMBLING
*PLEASE NOTE THIS IS NOT FINAL EJECT POSITION

Fig.M51

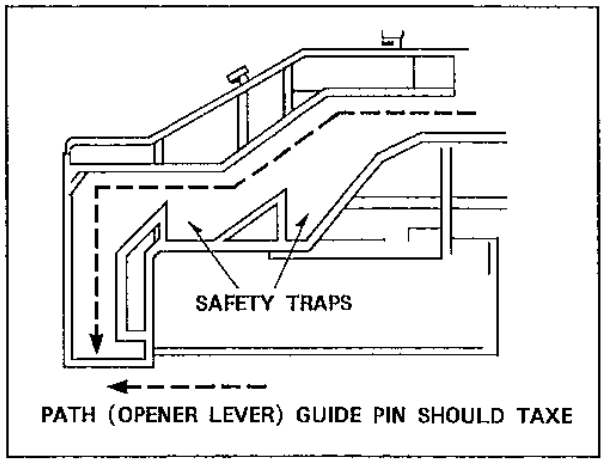



Fig.M52